



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors

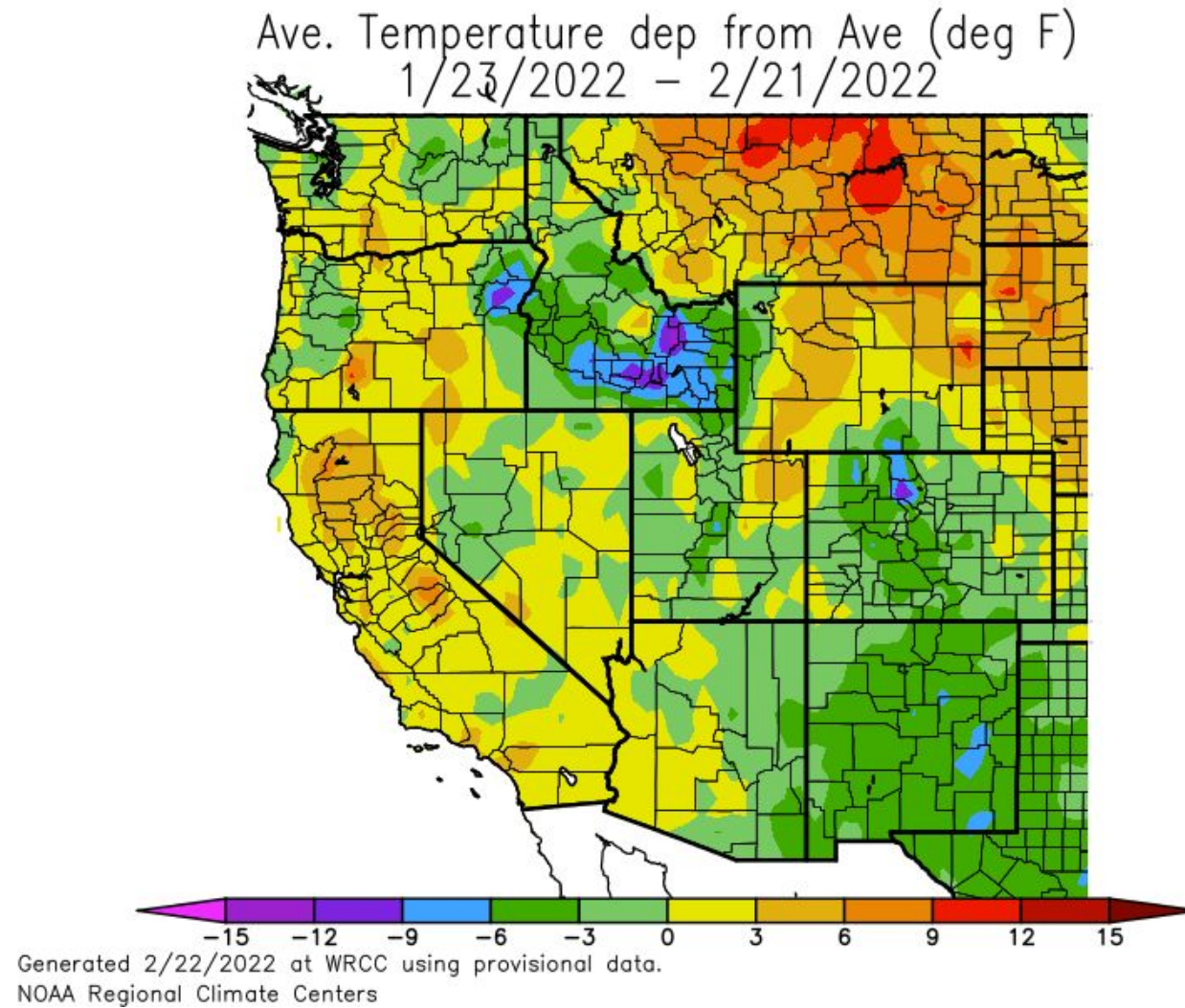




Utah Water Assessment & Conditions Monitoring Webinar

February 22, 2022

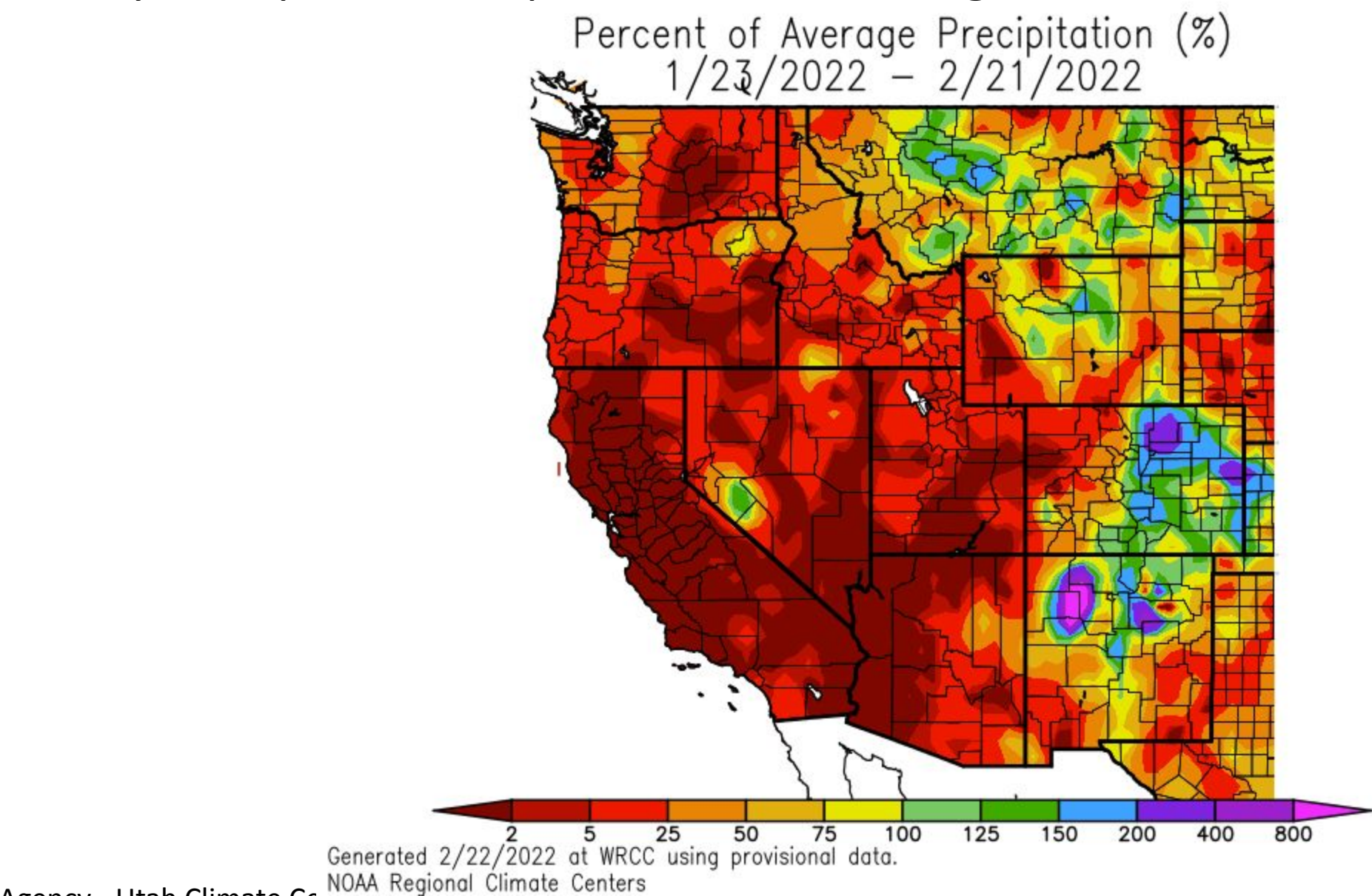
30-day Avg. Temperature Departure From Average



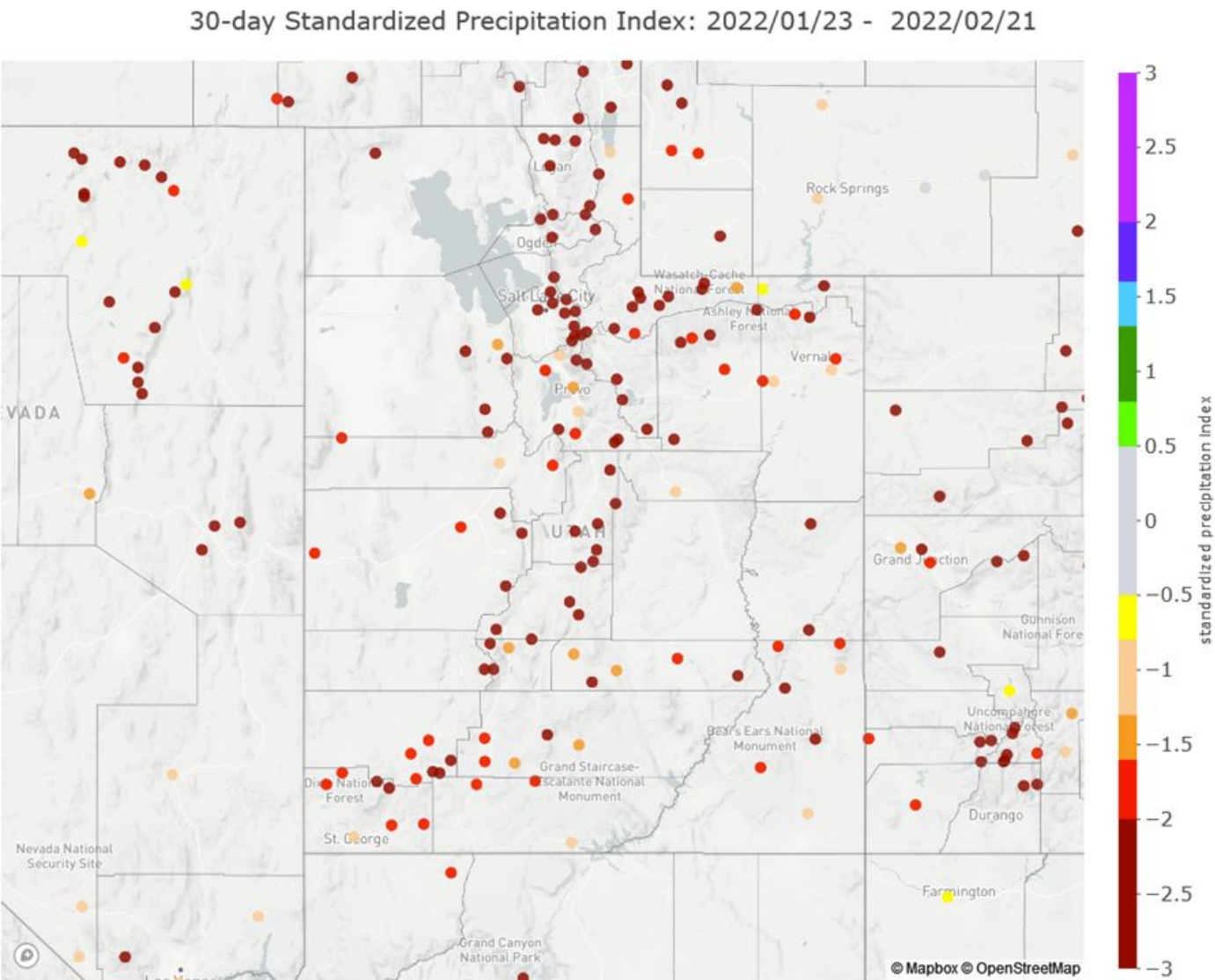
Agency - Utah Climate Center

Presenter - Jon Meyer

30-day Precipitation Departure From Average

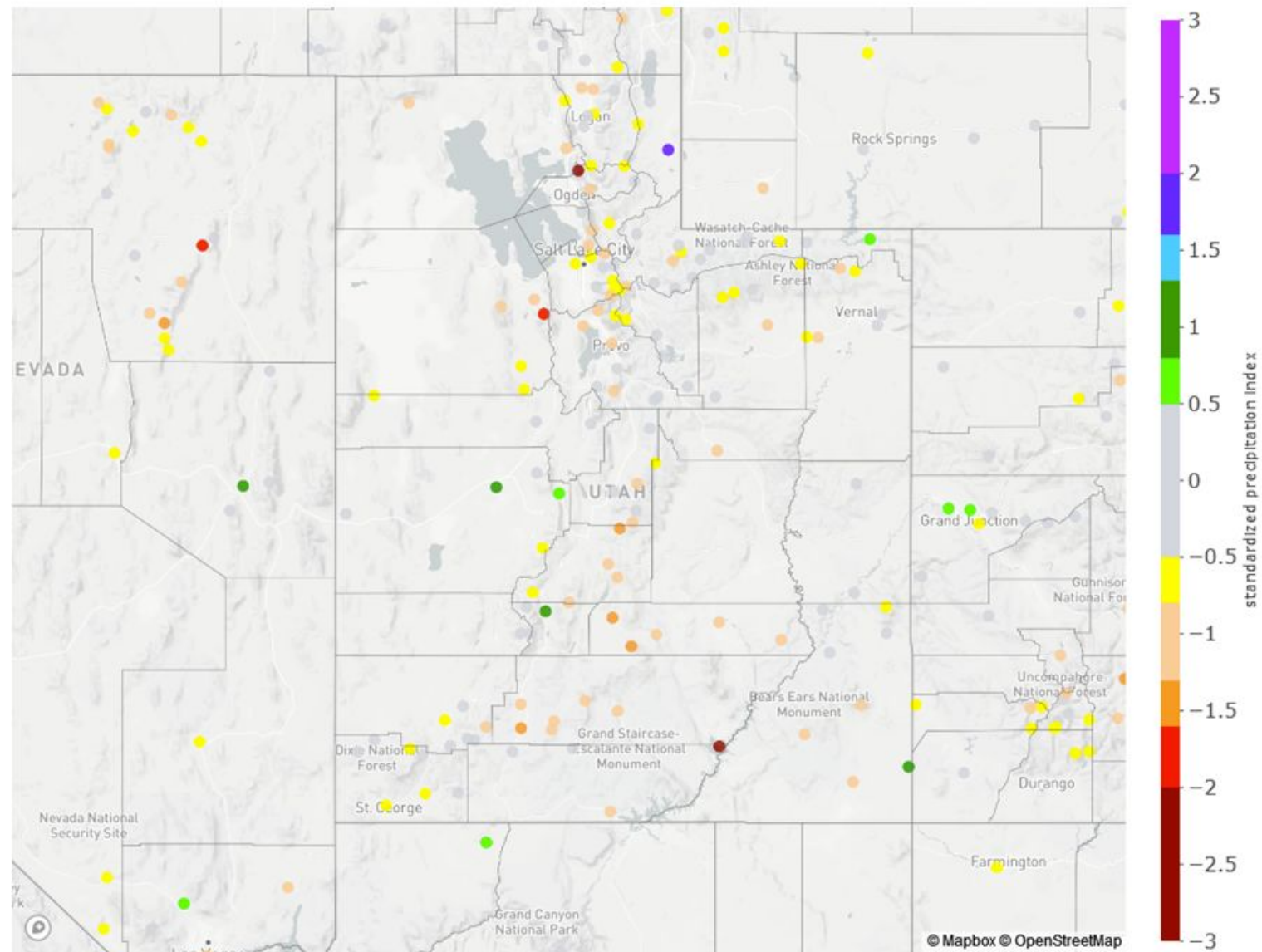


30-day Standardized Precipitation Index

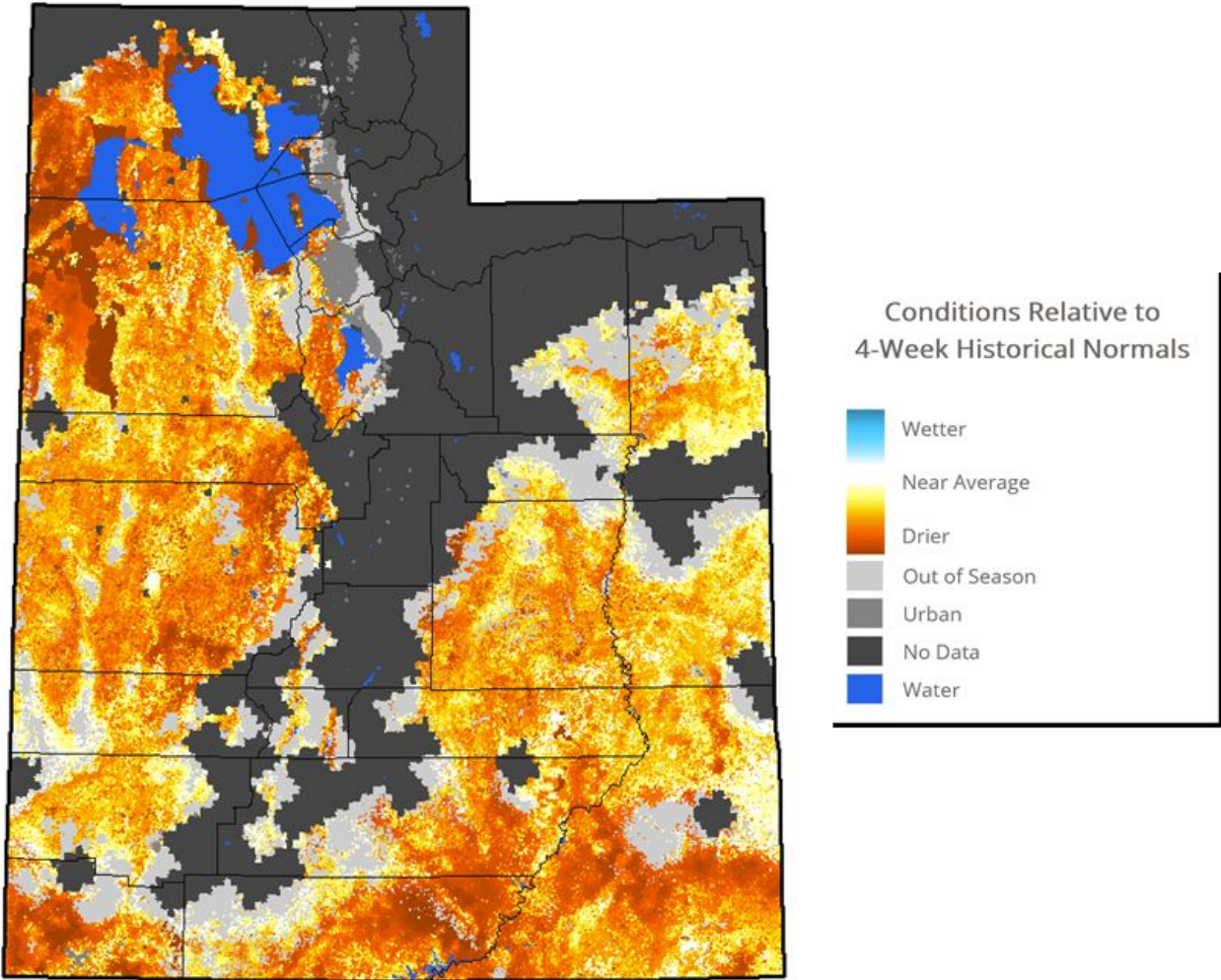


120-day Standardized Precipitation Index

120-day Standardized Precipitation Index: 2021/10/25 - 2022/02/21

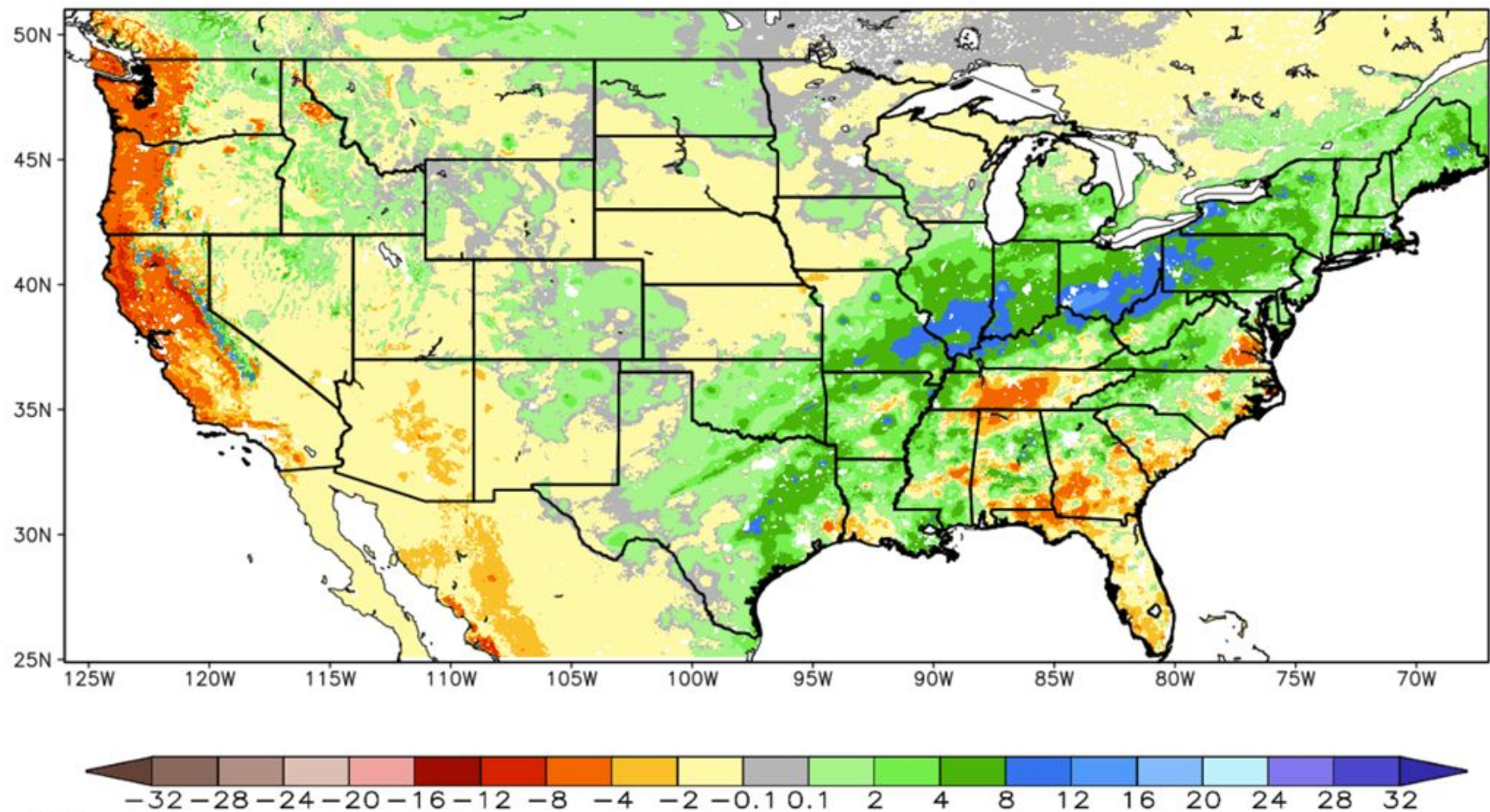


Quick DRI Drought Index



30-day changes to column relative soil moisture

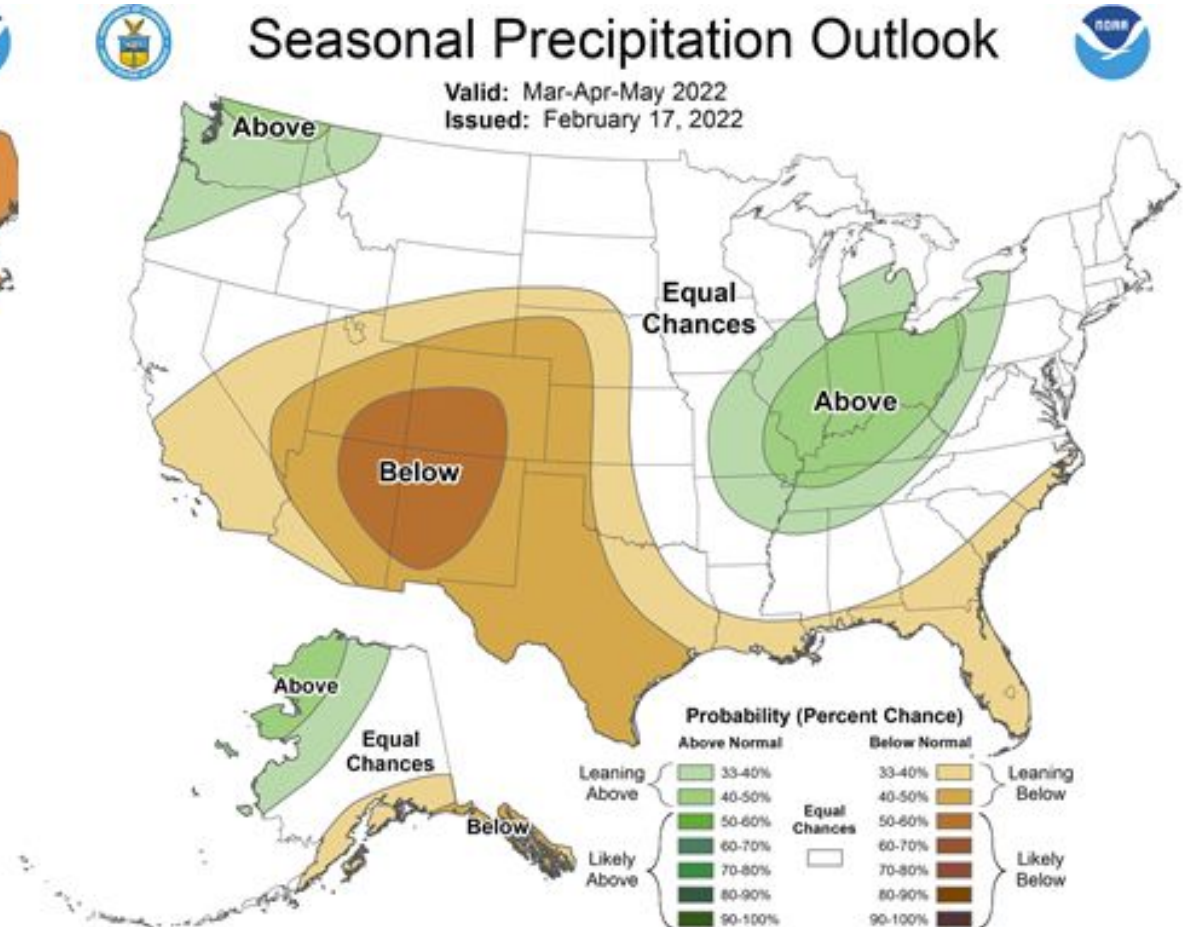
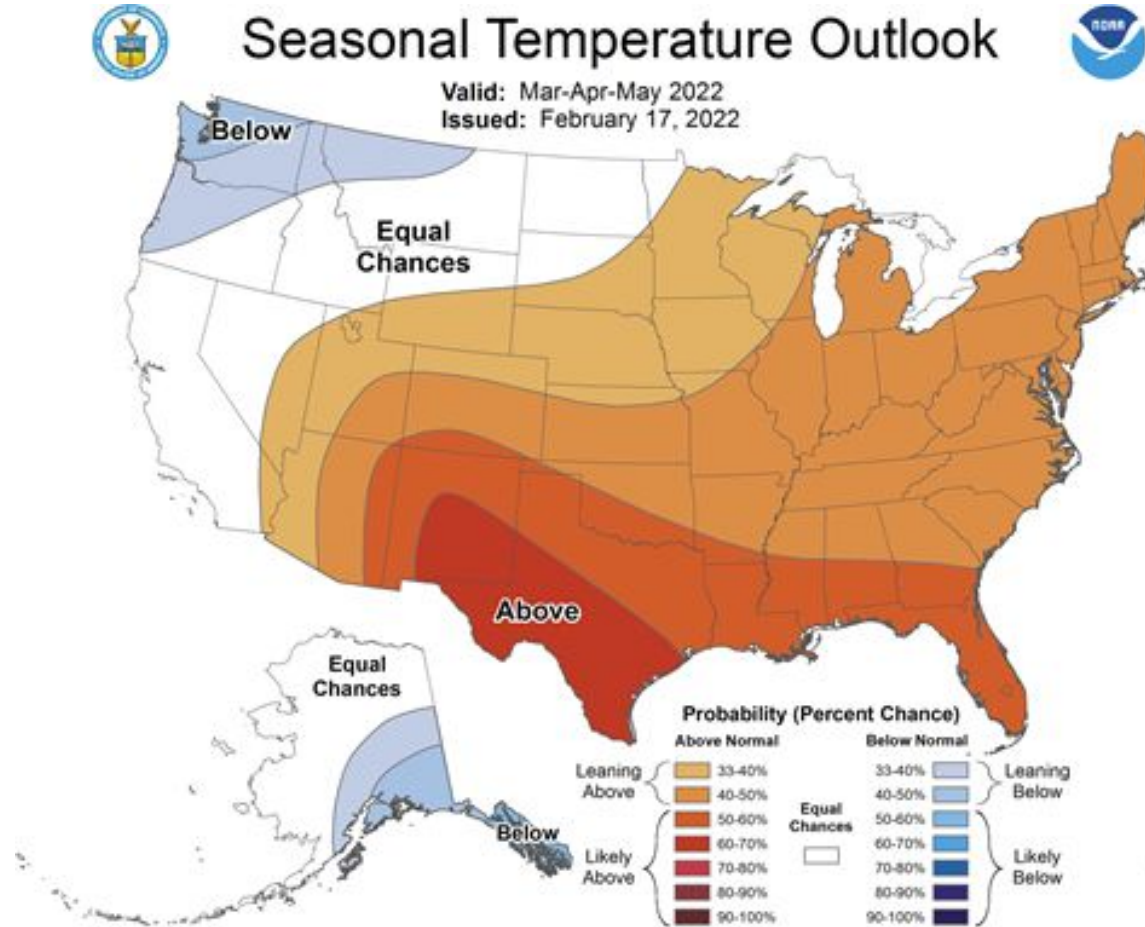
1-Month Difference in Column Relative Soil Moisture (%) valid 12z 22 Feb 2022



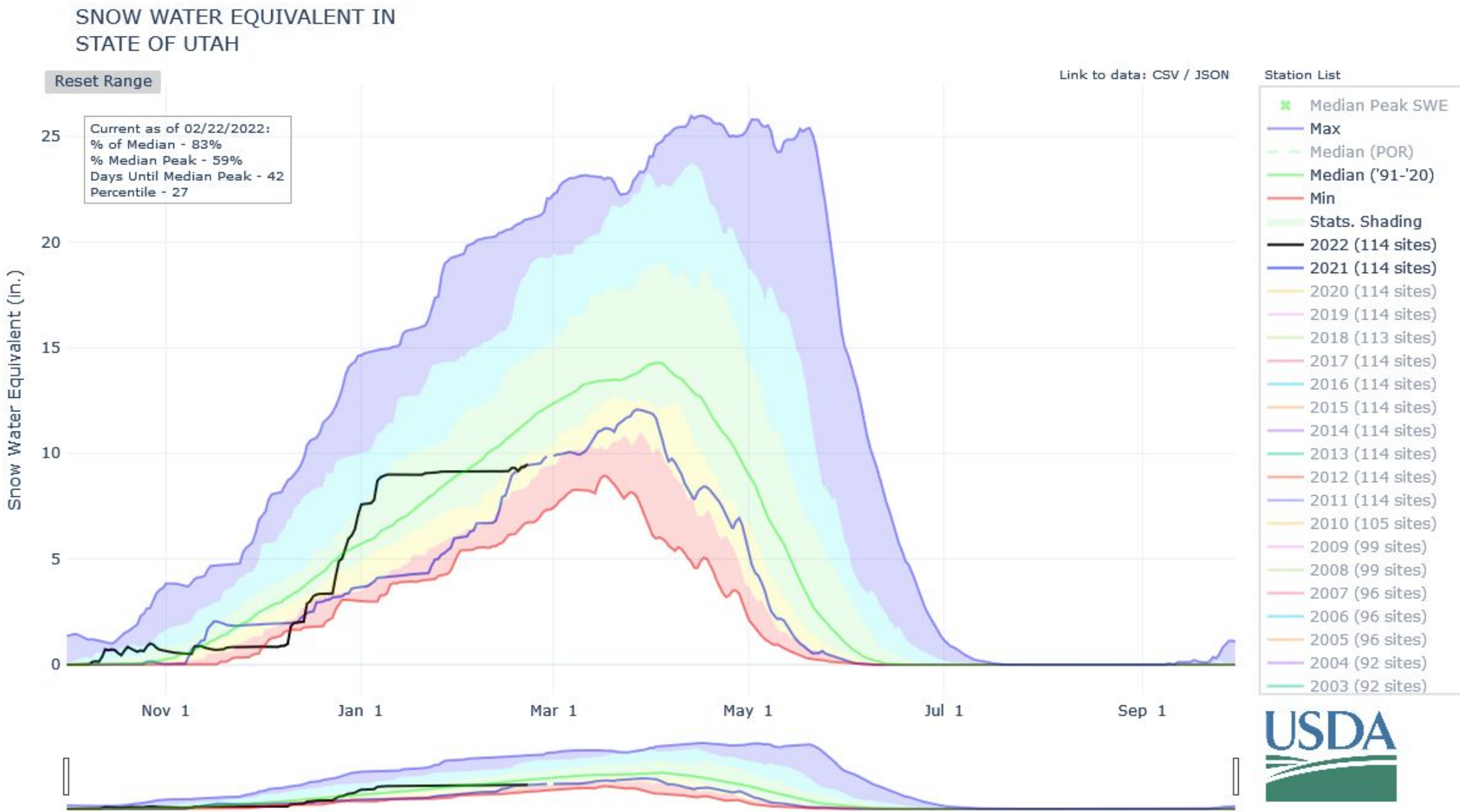
Agency - Division of W
Presenter - Laura Haski

NOTE
Experimental

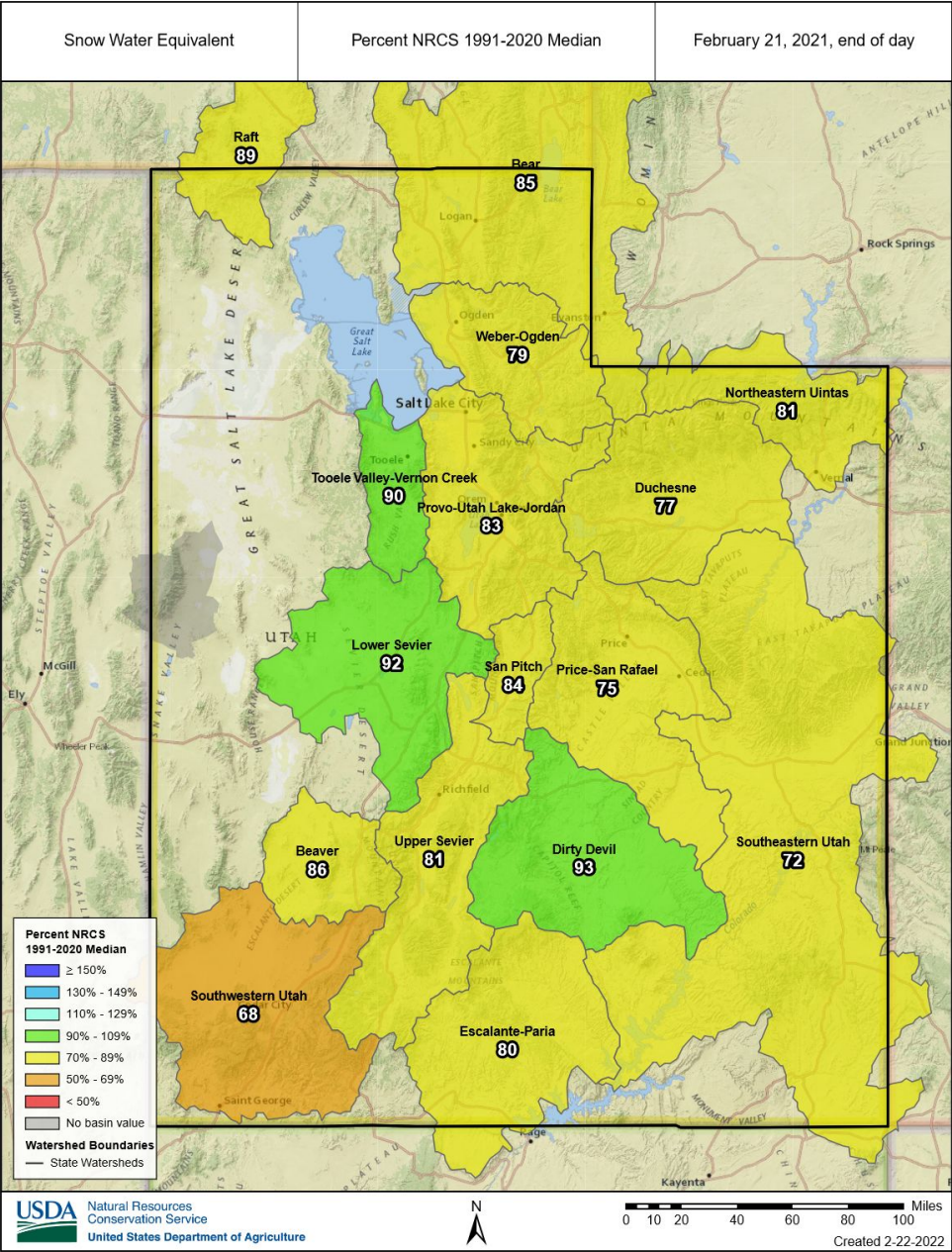
CPC 3-month outlook



Snowpack

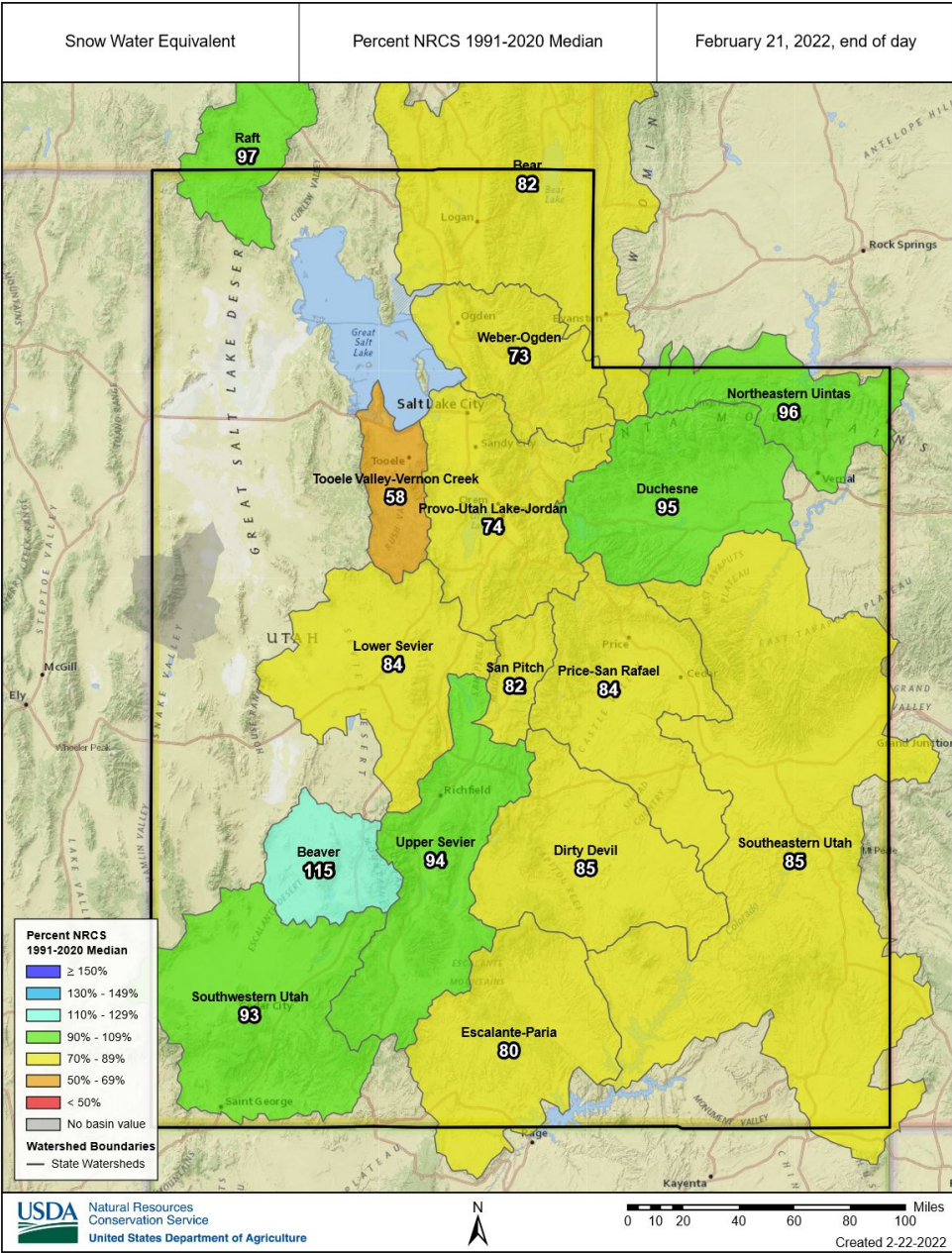


Snowpack



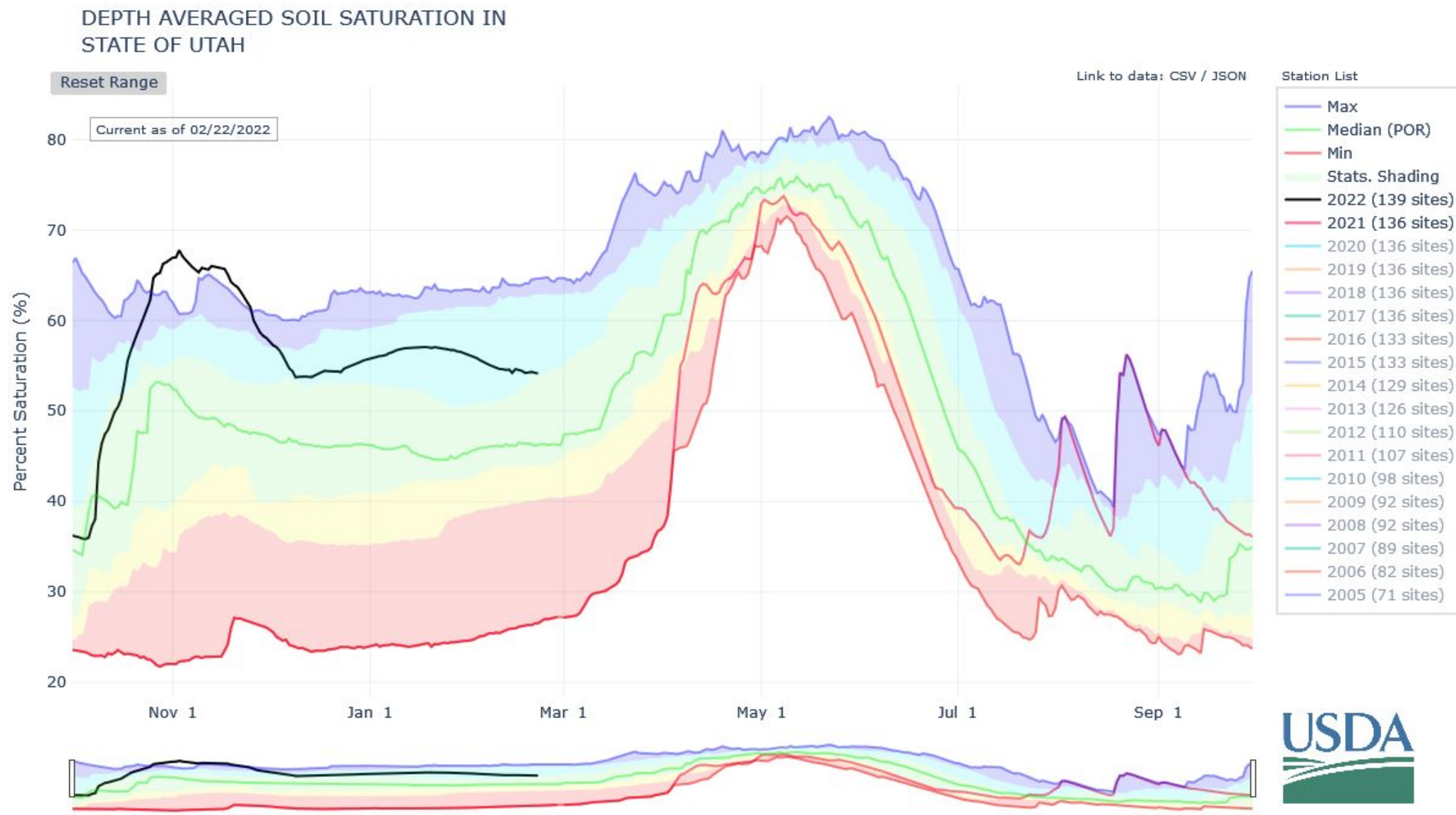
Agency - NRCS Snow Survey
Presenter - Jordan Clayton

2021

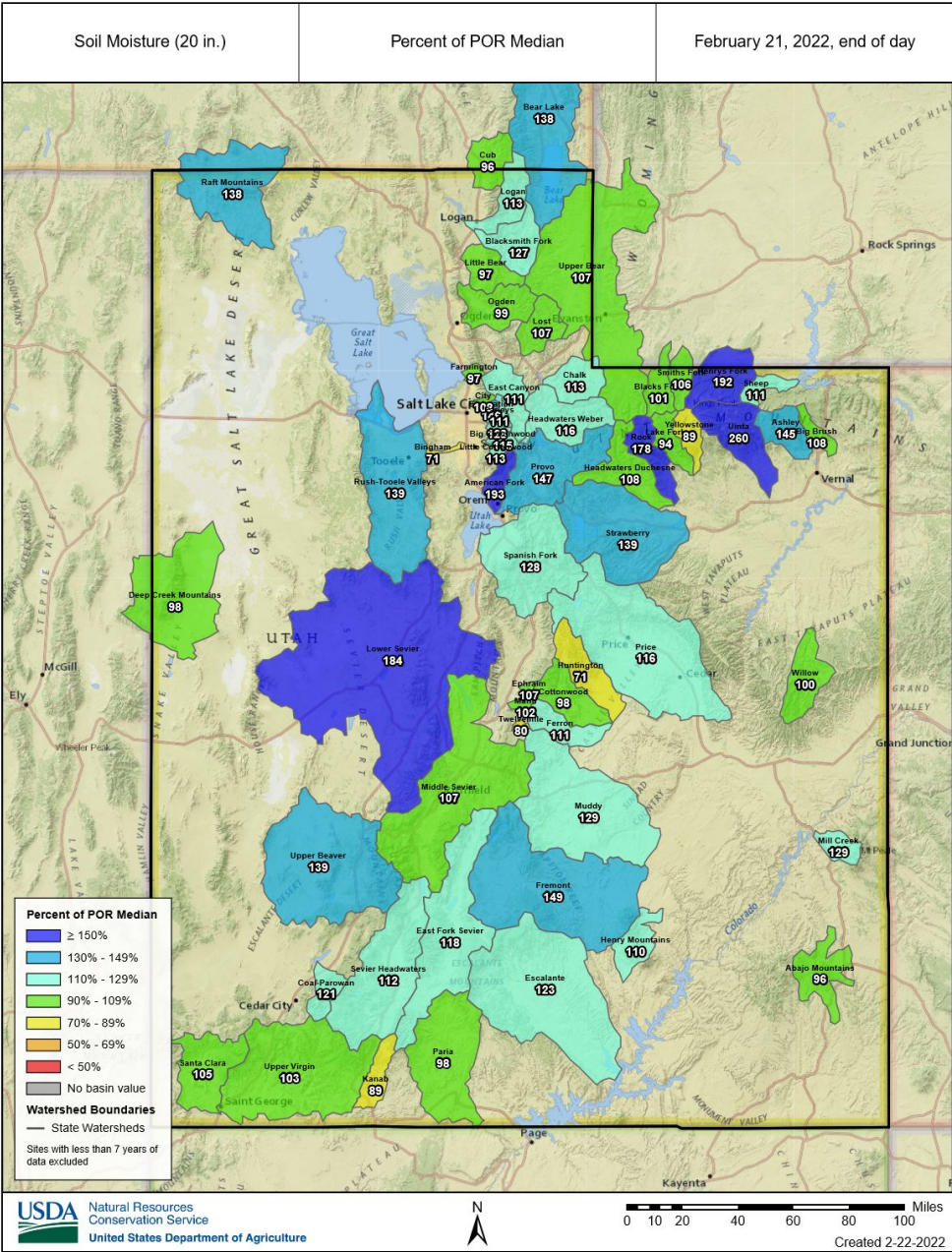
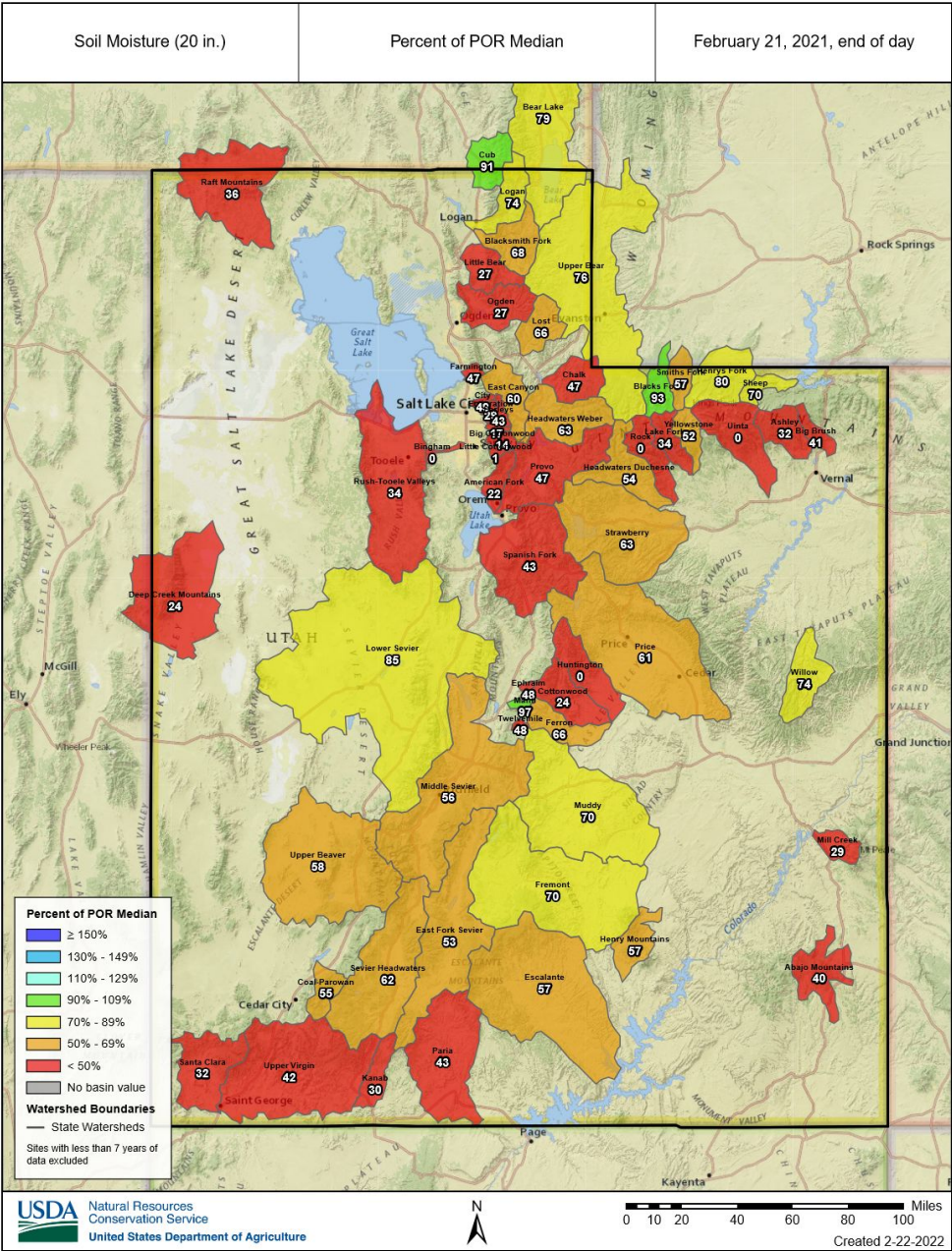


2022

Soil Moisture



Soil Moisture



Statewide

(excluding Lake Powell & Flaming Gorge)

Current 53%

Last Year 62%

Average 62%

Bear Lake

Current 52%

Last Year 61%

Average 45%

Sevier Bridge / Yuba Lake

Current 28%

Last Year 34%

Average 66%

Jordanelle Reservoir

Current 59%

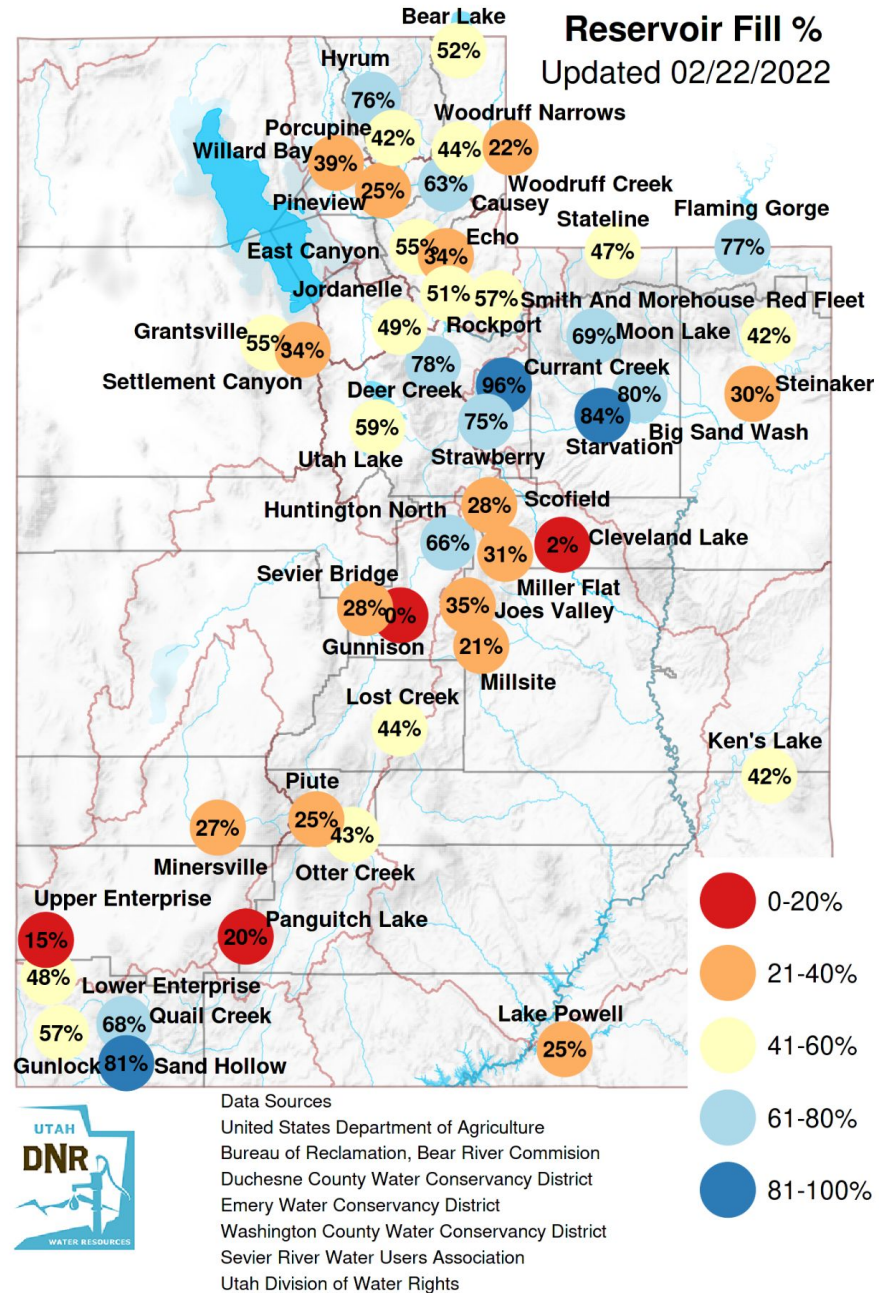
Last Year 73%

Average 86%

Sand Hollow

Current 81%

Last Year 96%



Scofield Reservoir

Current 28%

Last Year 50%

Average 45%

Grantsville Reservoir

Current 55%

Last Year 46%

Average 53%

Minersville Reservoir

Current 27%

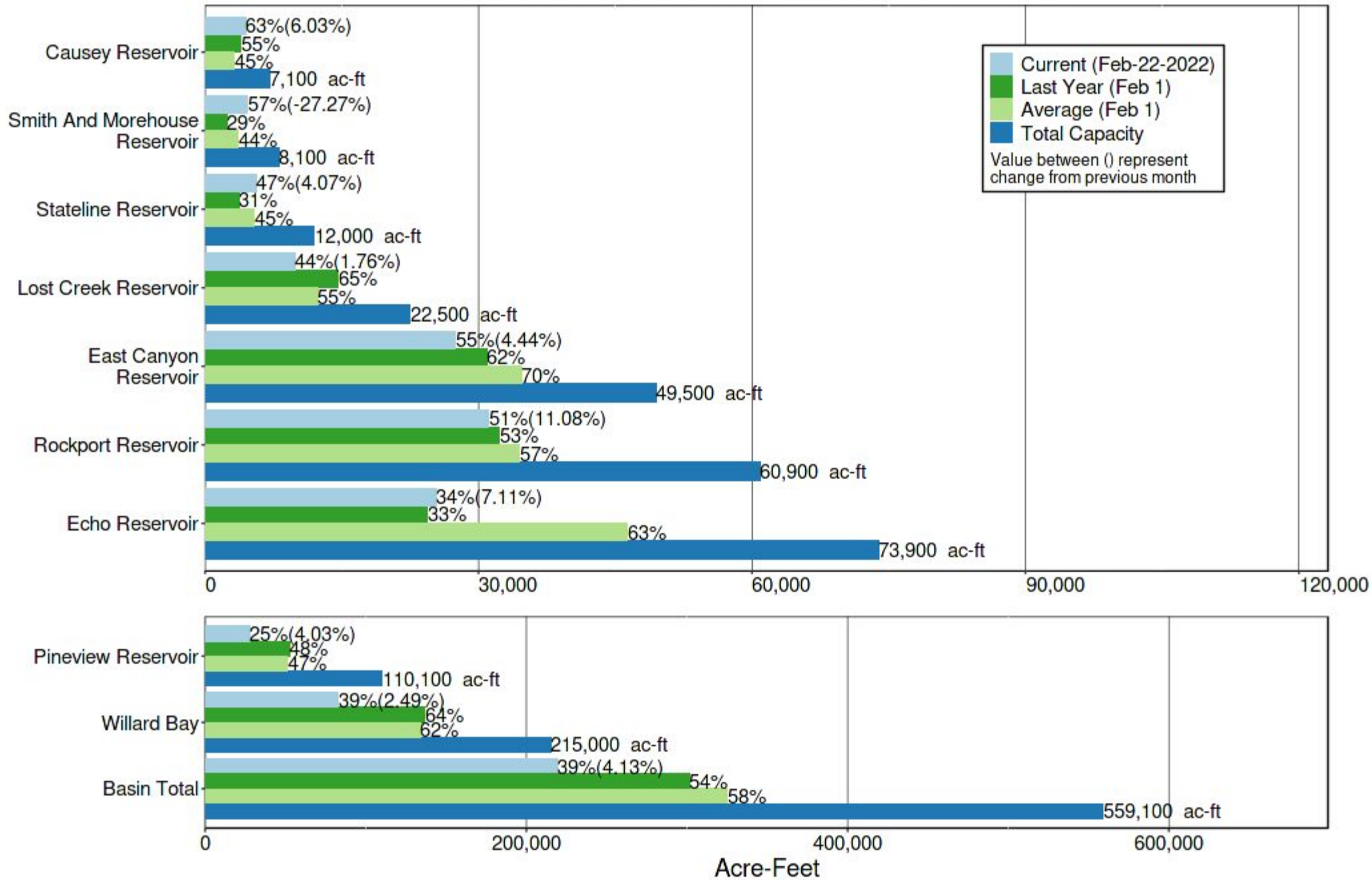
Last Year 29%

Average 58%

Agency - Division of Water Resources

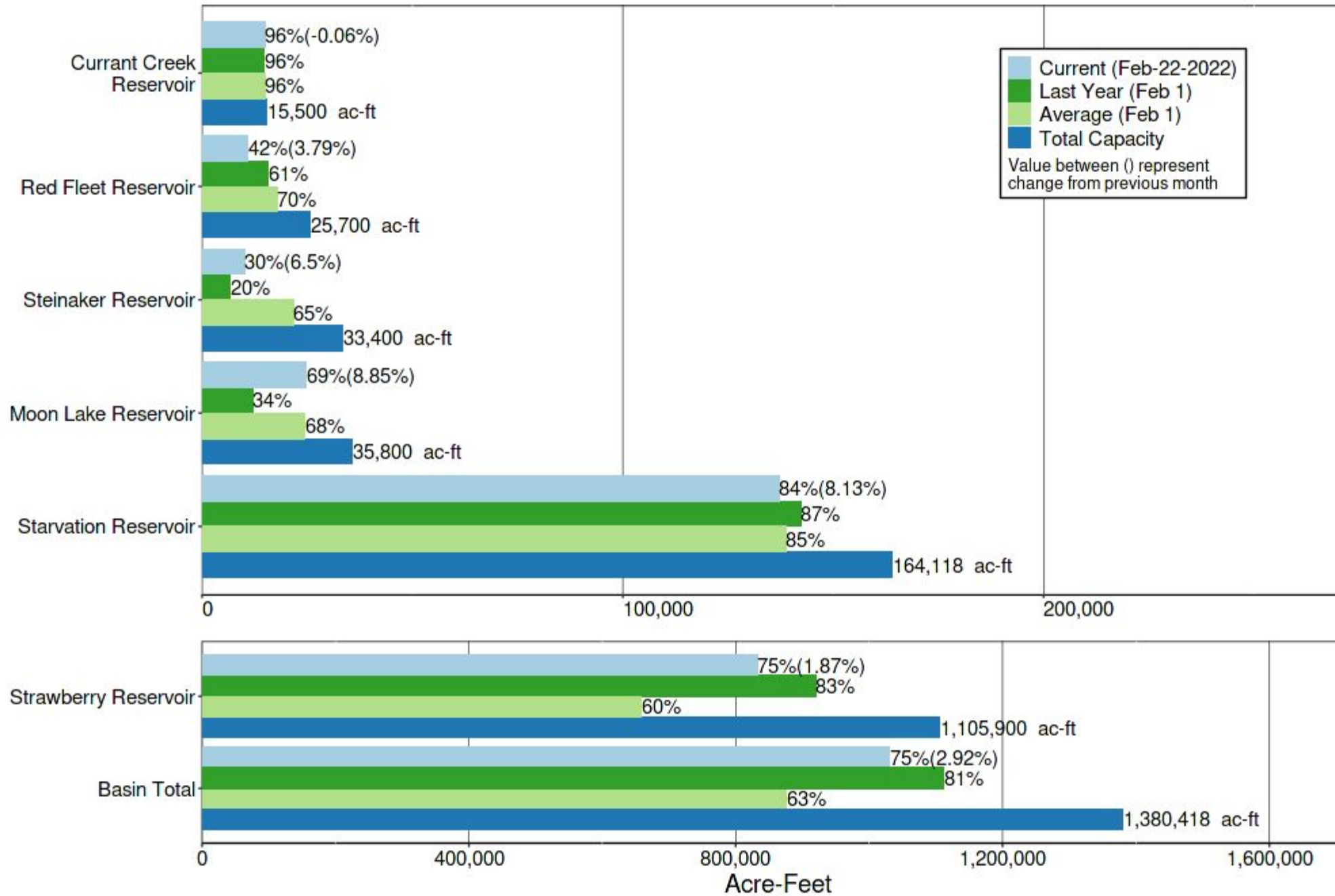
Presenter - Laura Haskell

Weber River Reservoir Storage (Feb-22-2022)



Agency - DWRe
Presenter - Laura Haskell

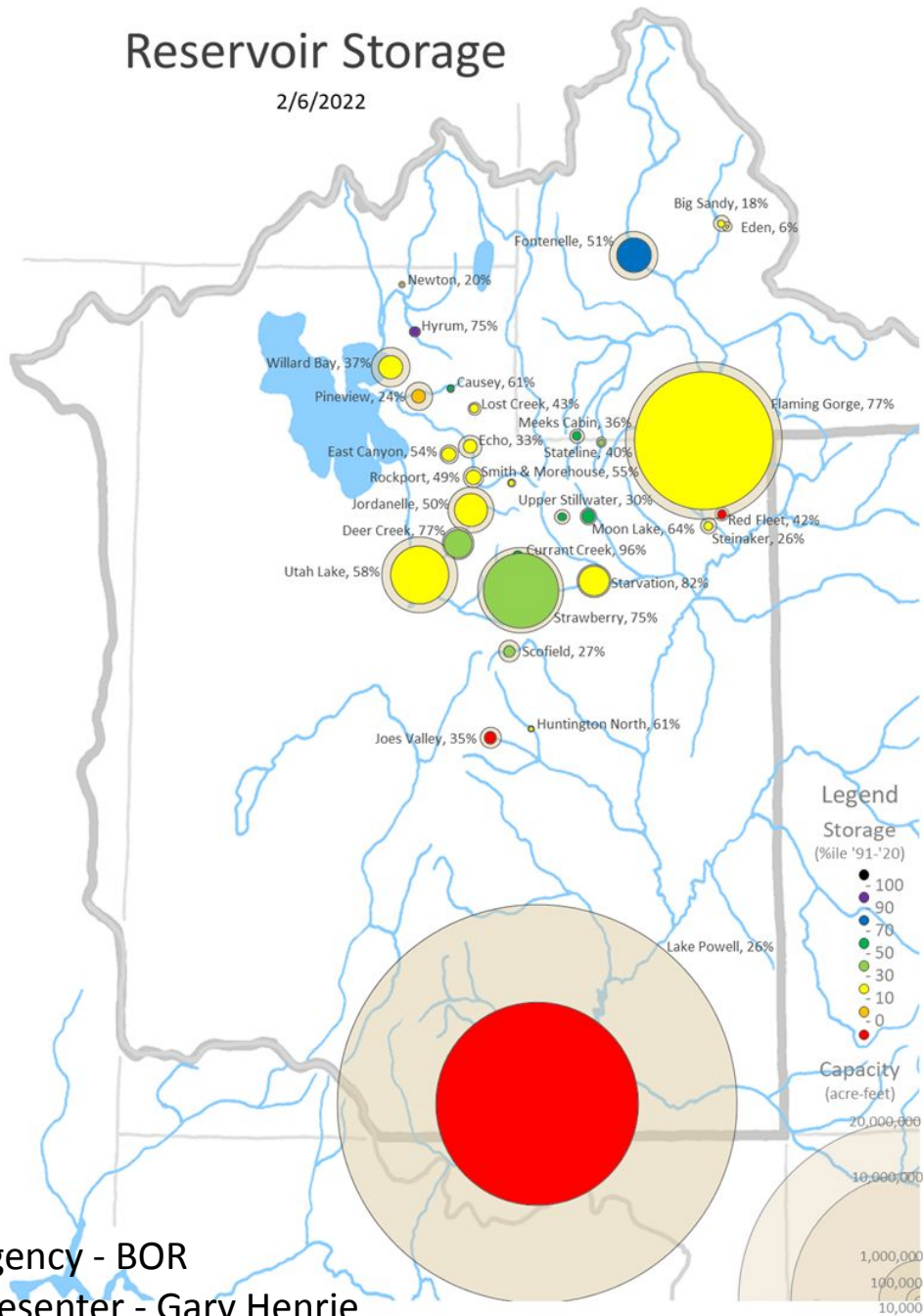
Uintah Basin Reservoir Storage (Feb-22-2022)



Agency - DWRe
Presenter - Laura Haskell

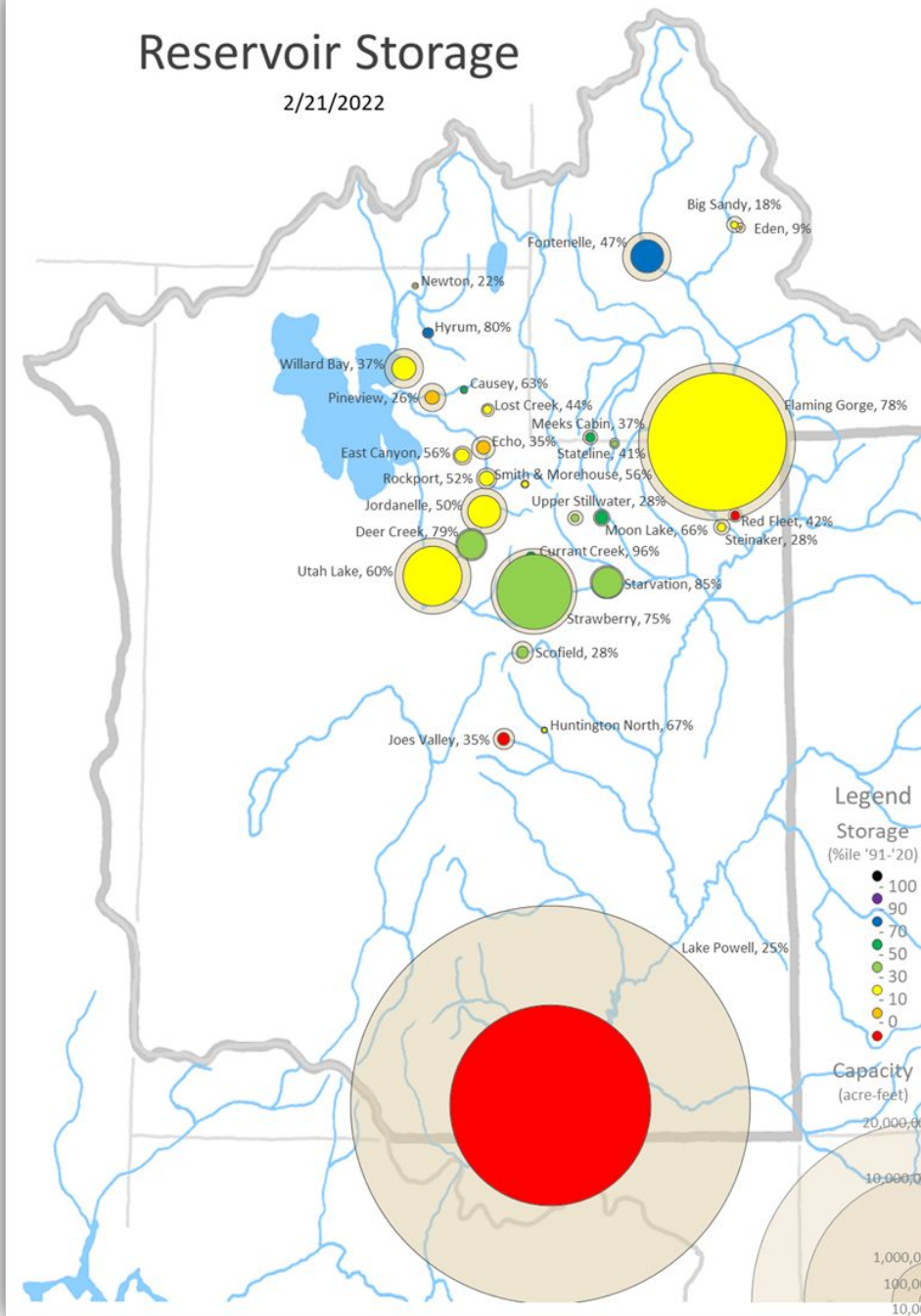
Reservoir Storage

2/6/2022



Reservoir Storage

2/21/2022



In the past 15 days...

Overall storage
(Excluding Fontenelle, Flaming Gorge, and Lake Powell)
increased by 1.0% up to 60% full

Most reservoirs
increased by 0-2%

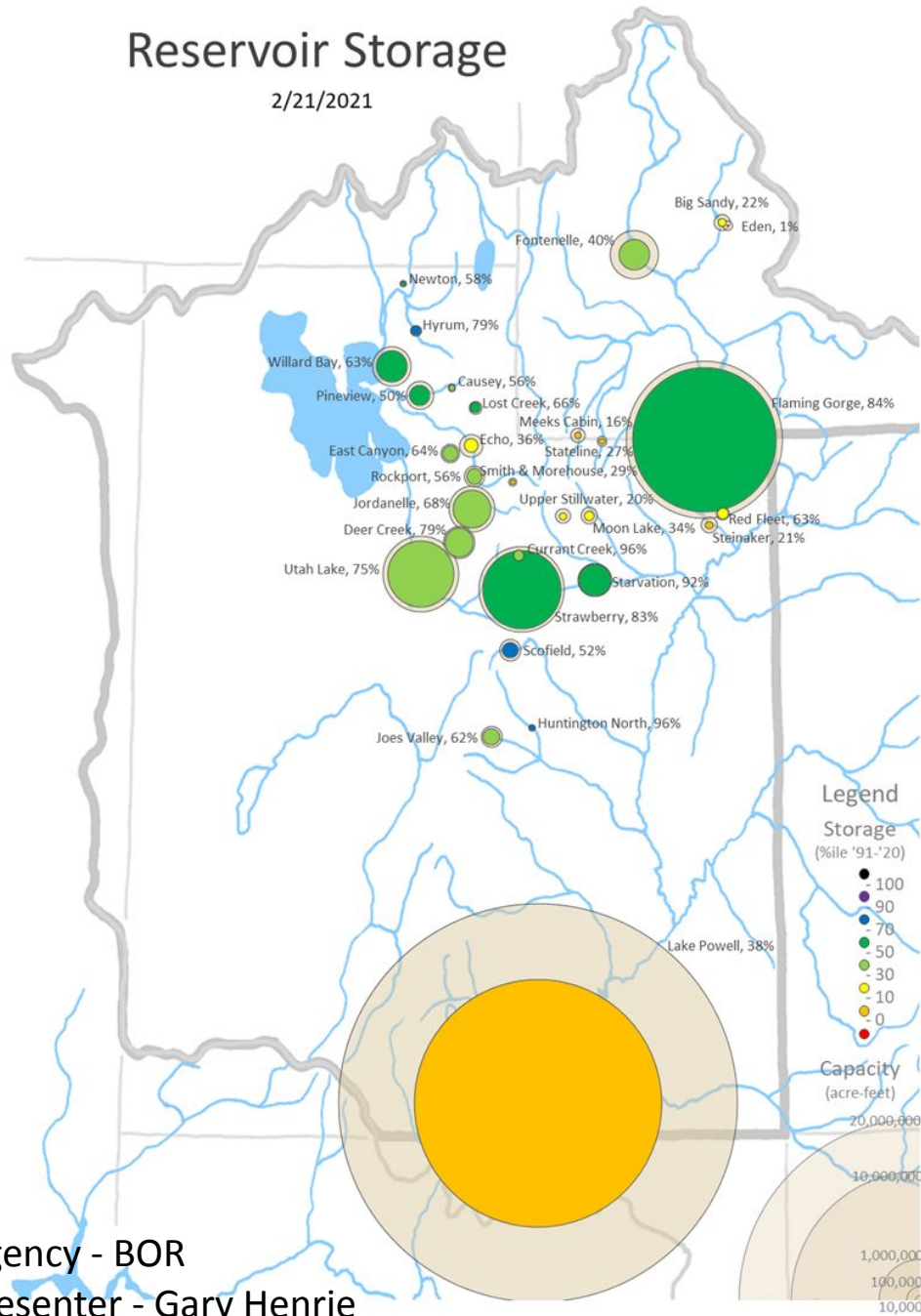
Reservoirs are following historic patterns (staying in the same percentile color bands)

Agency - BOR
Presenter - Gary Henrie



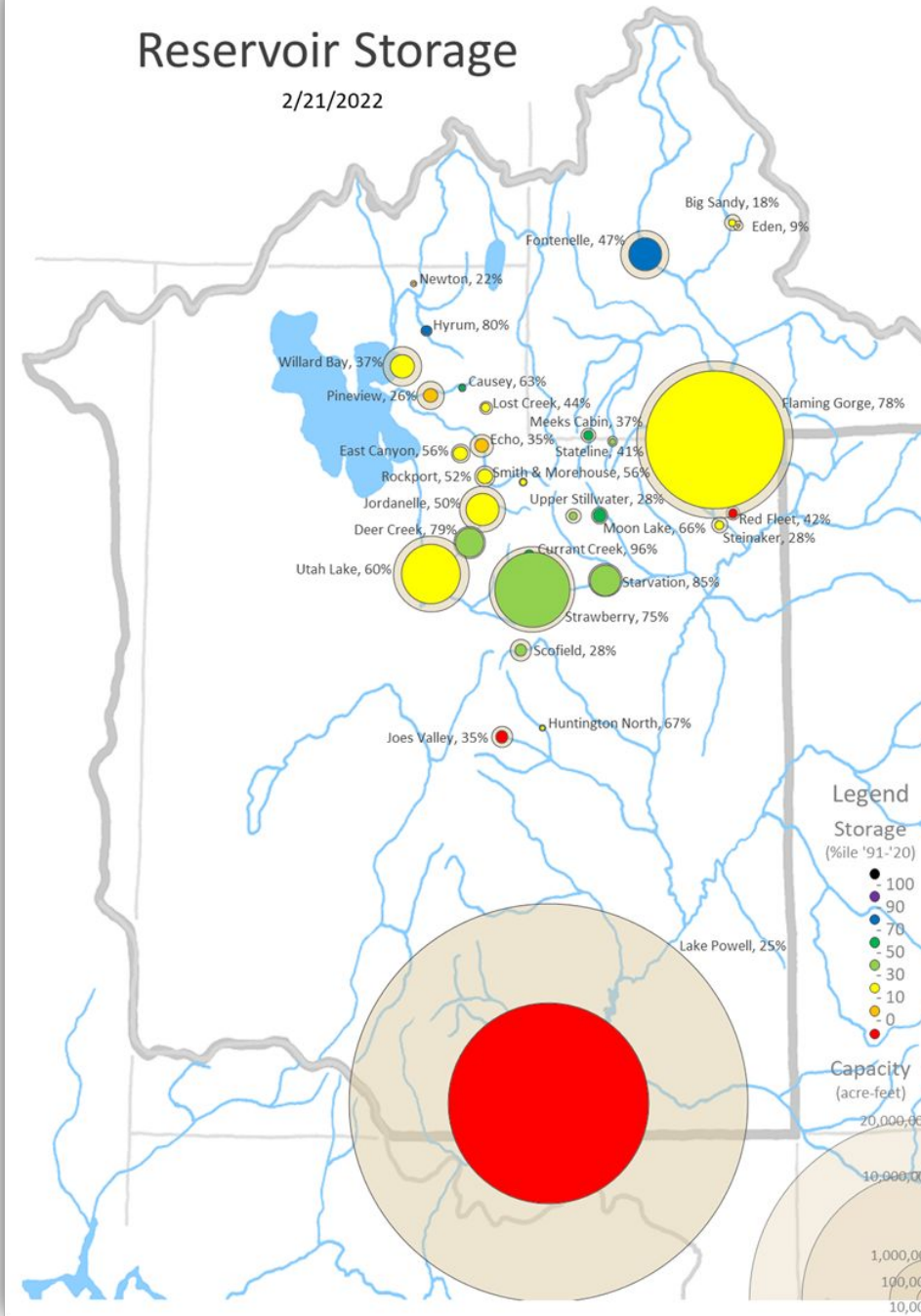
Reservoir Storage

2/21/2021



Reservoir Storage

2/21/2022



Compared to last year...

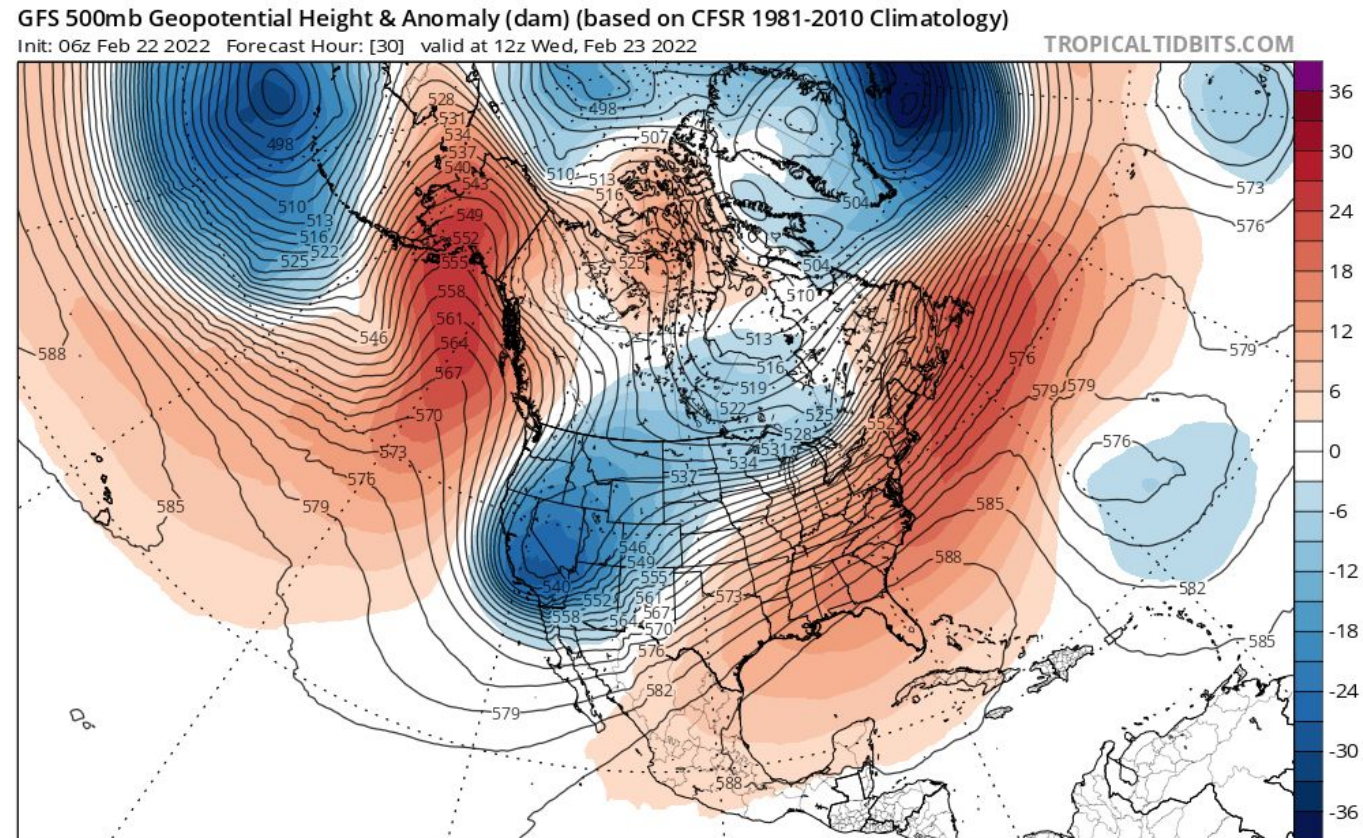
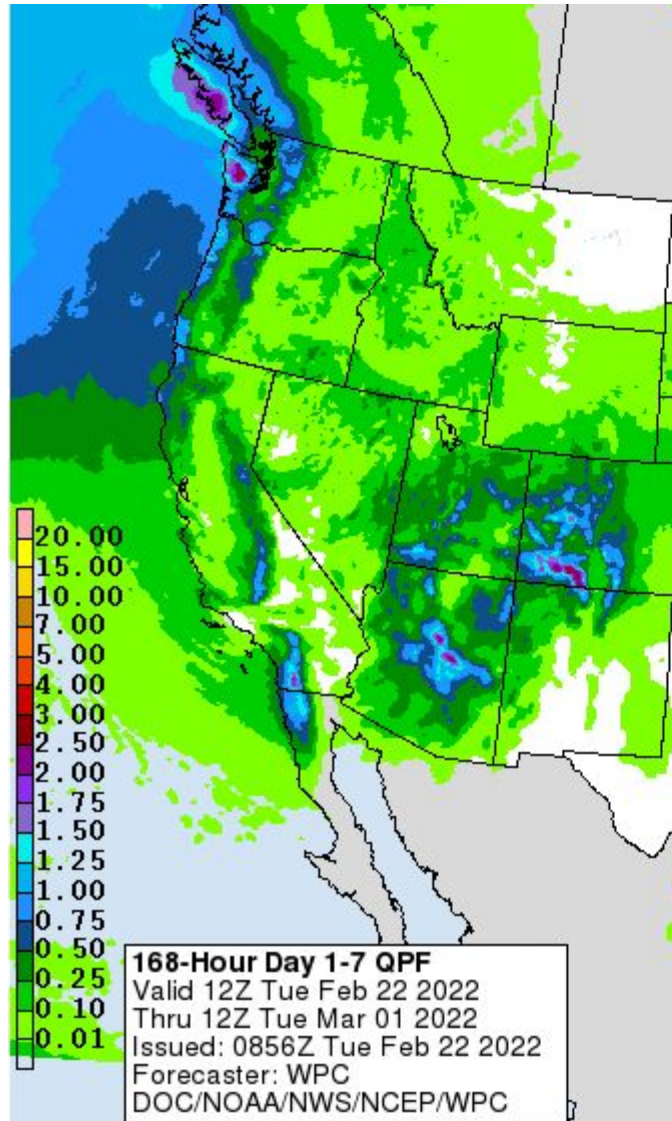
Overall storage
(Excluding Fontenelle, Flaming Gorge, and Lake Powell)
is 11% lower (60%)
than last year (71%)

Reservoirs vary,
Most -20% to +8%
Some -36% to +32%

Conditions have worsened, except in the Uintas



Weather Forecast Office Utah Day 1-7 Outlook

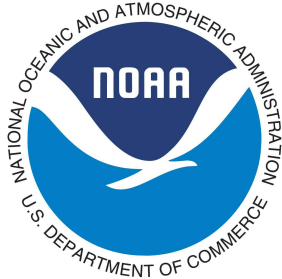


- Active through Wednesday, especially across southern Utah
- Well below normal temperatures through Saturday
- Dry with near normal temperatures early next week

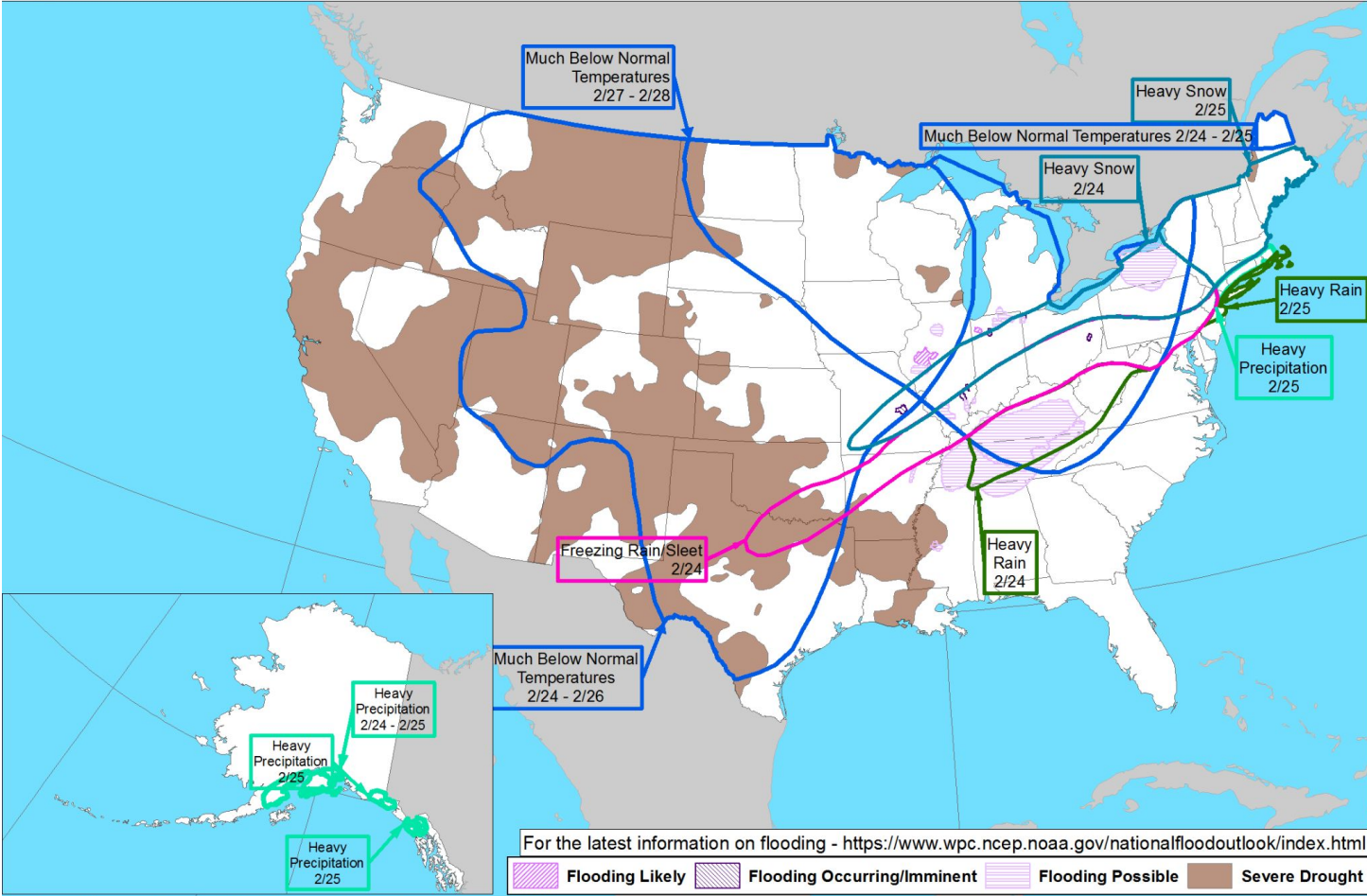
Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

Weather Prediction Center U.S. Day 3-7 Hazards Outlook



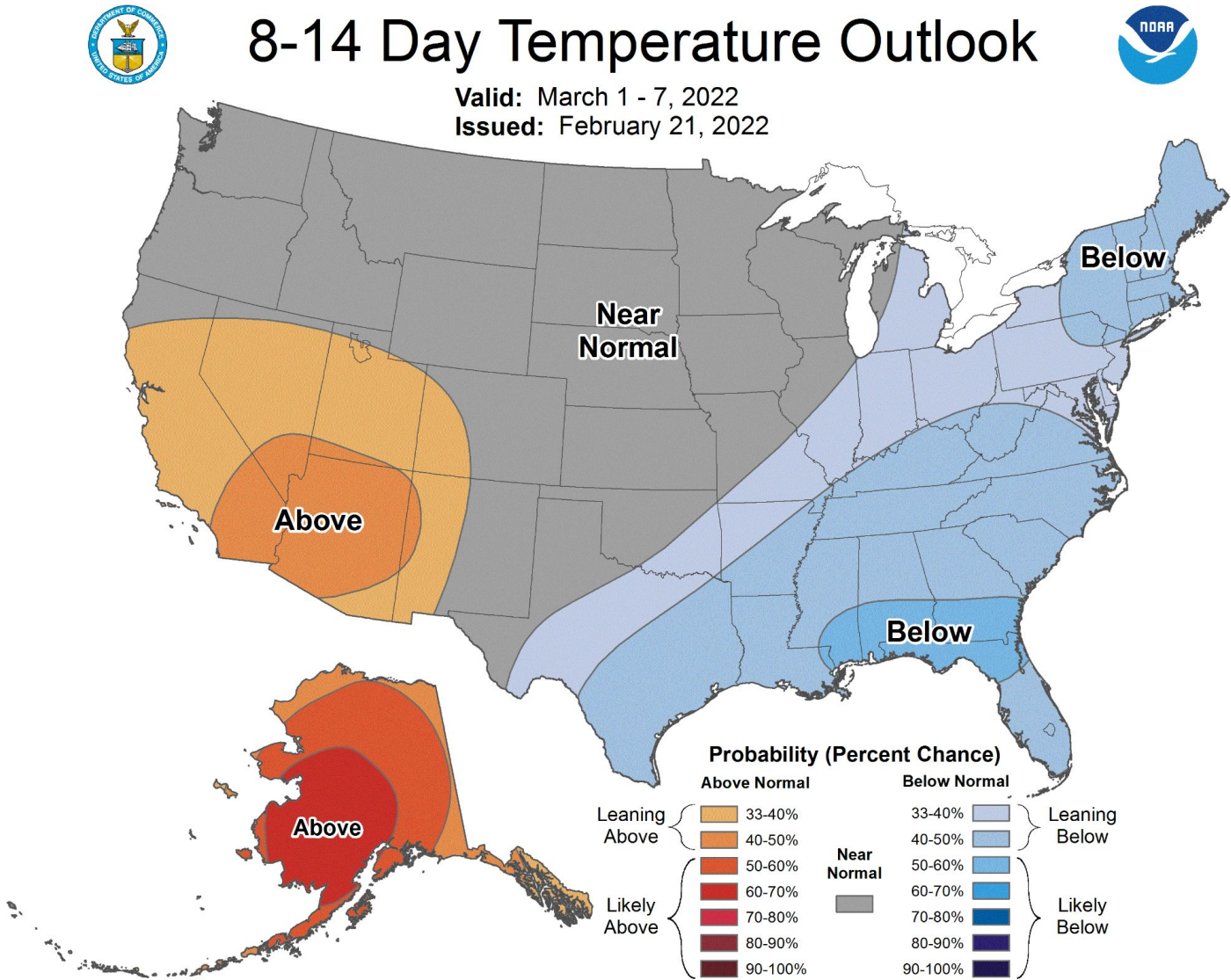
Day 3-7 U.S. Hazards Outlook
Valid: 02/24/2022-02/28/2022



Weather Prediction Center
Made: 02/21/2022 3PM EST

Follow us: www.wpc.ncep.noaa.gov

Climate Prediction Center 8 to 14 Day Outlooks - Temperature



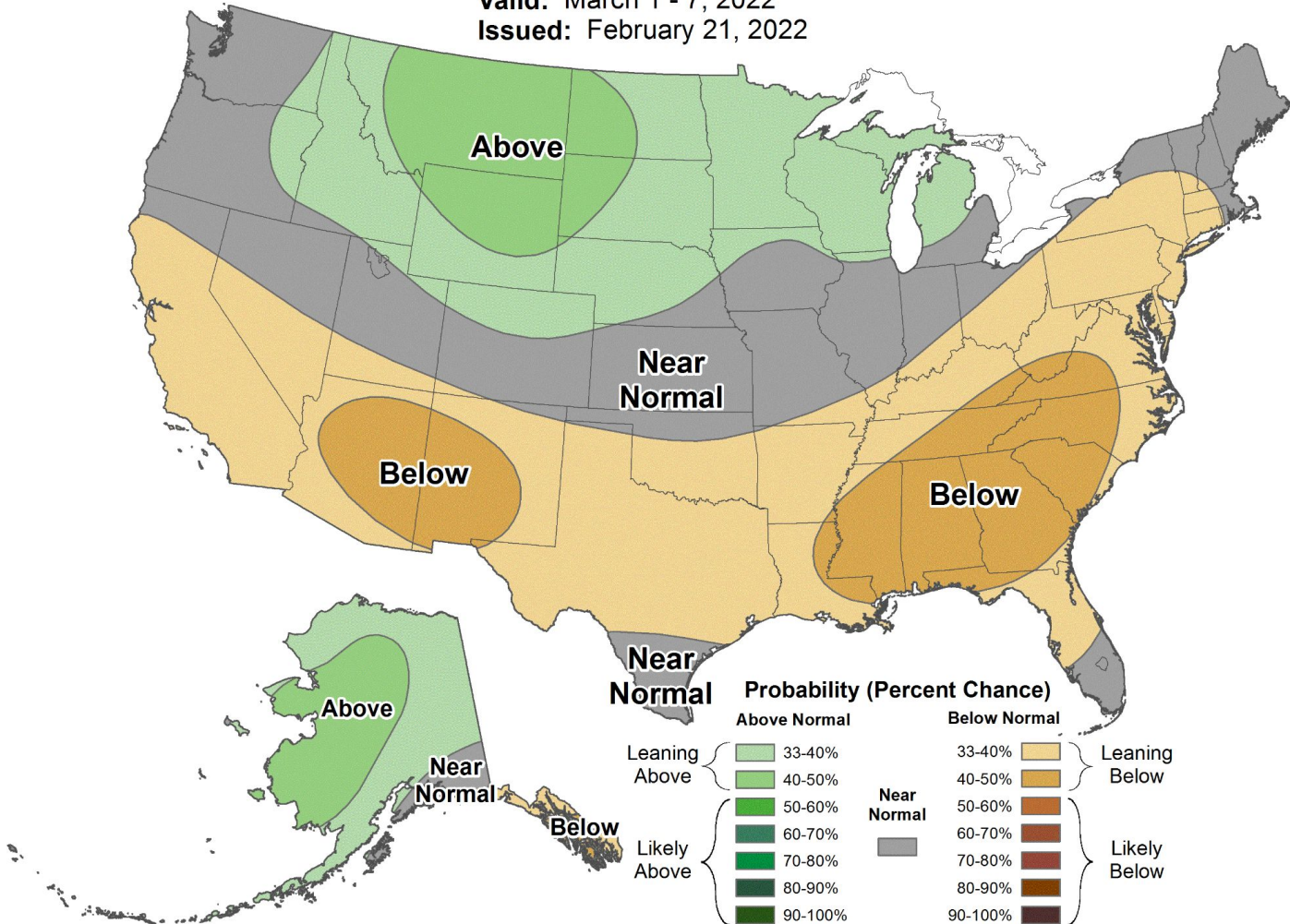
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



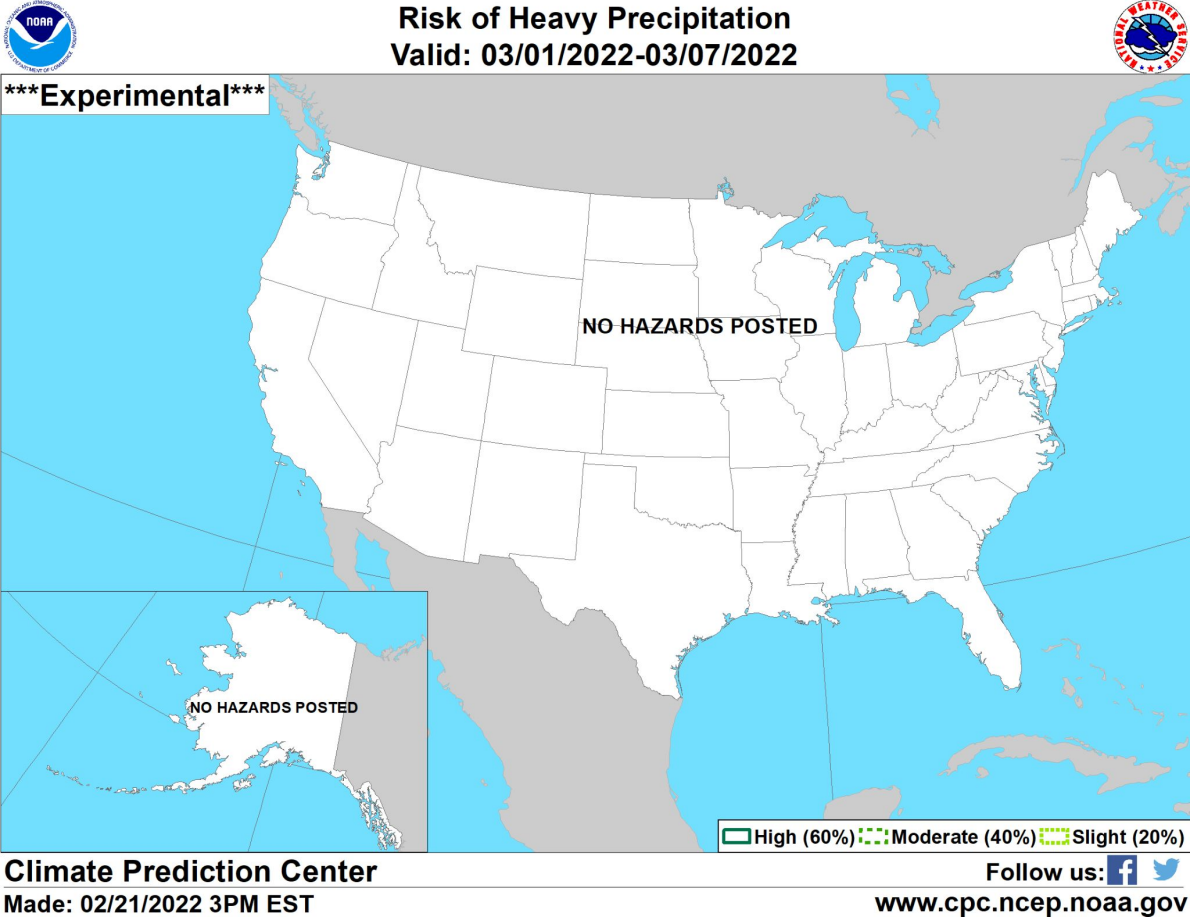
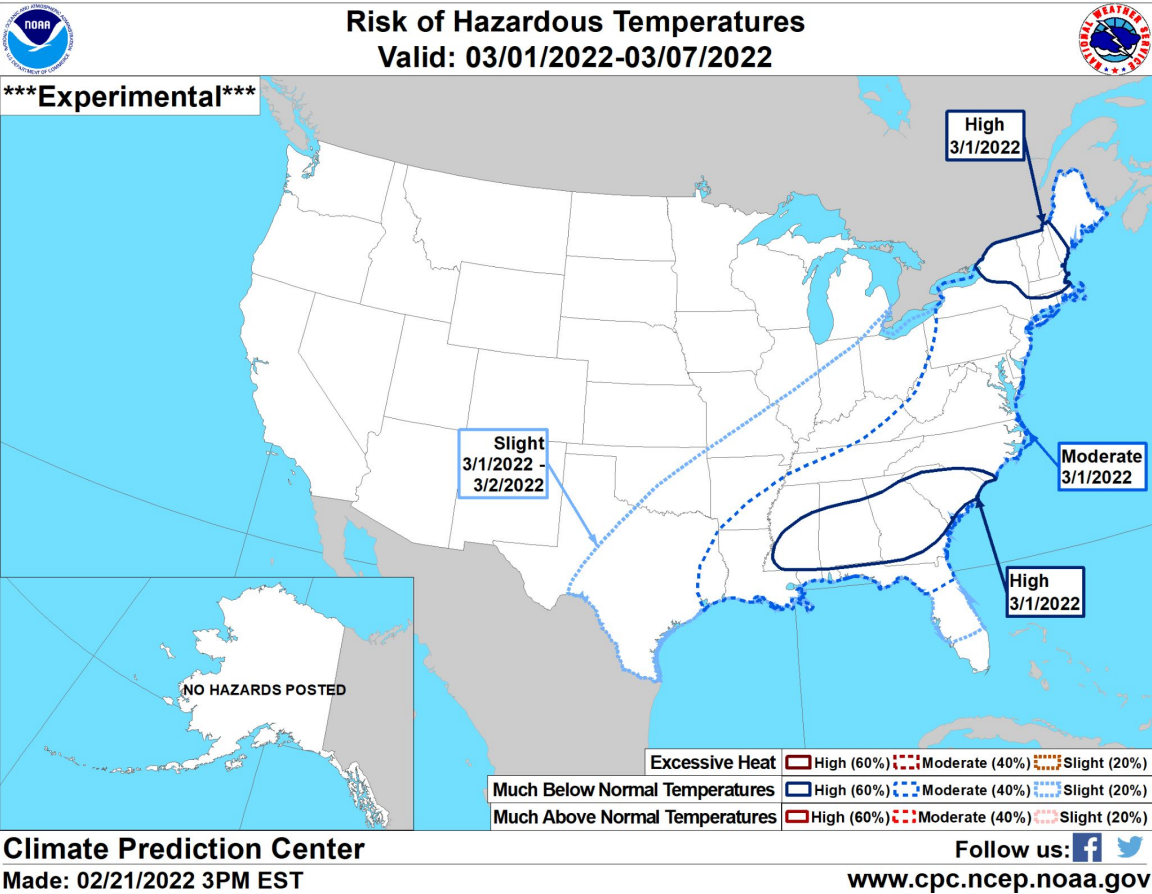
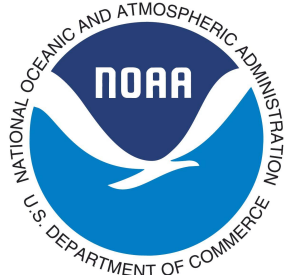
8-14 Day Precipitation Outlook



Valid: March 1 - 7, 2022
Issued: February 21, 2022



Climate Prediction Center U.S. Week-2 Hazards Outlook



Water Supply Forecasts / Runoff (Percent of Average)

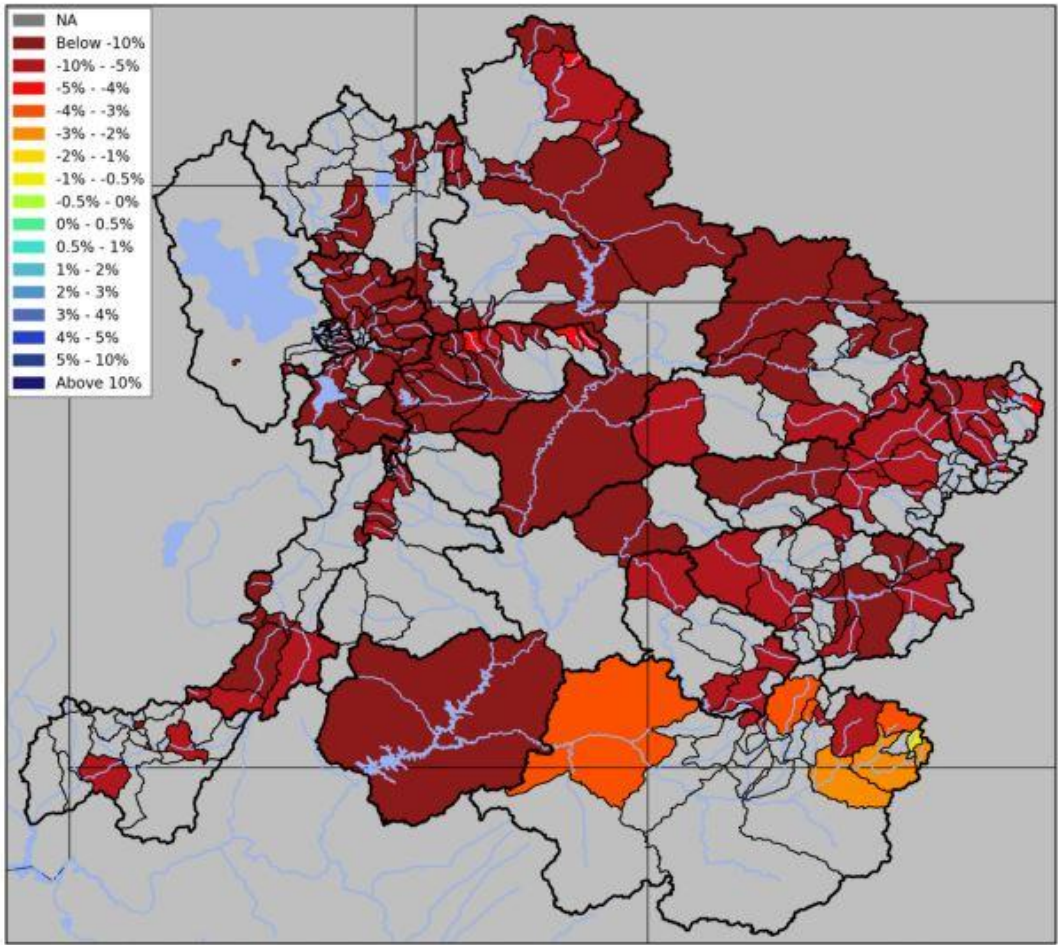
Map of seasonal water supply forecasts change in February.

Summary of conditions at Mid Mo:

Weber	50-80%
Bear	50-90%
Six Creeks	70-90%
Utah Lake	50-85%
Sevier	50-90%
Green River	55-80%
San Juan	55-80%

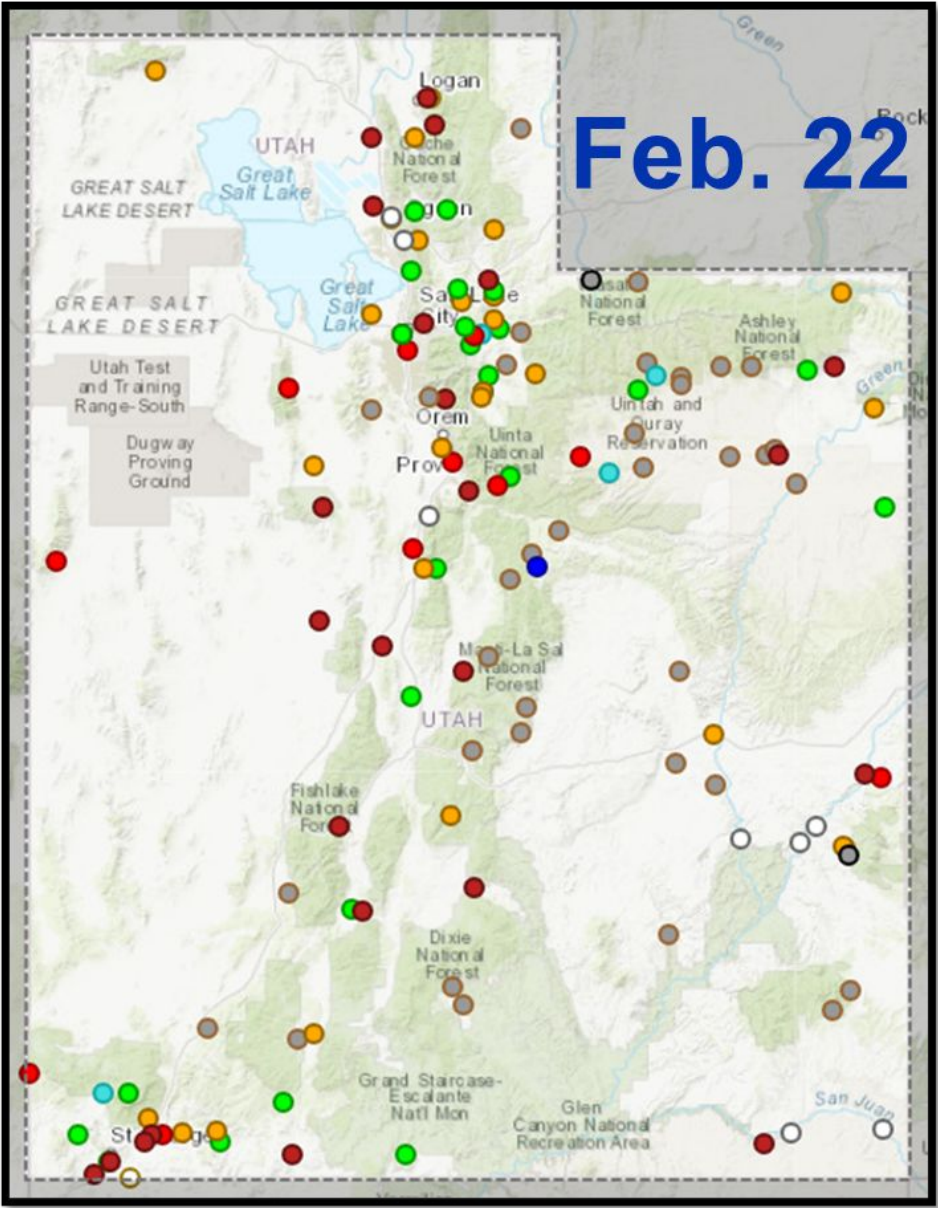
Lake Powell Latest ESP 2.22.22:
3910kaf, 61% of Average

Seasonal Water Supply Forecasts



Trend in the April-July runoff volume forecast guidance from February 1 to February 15, 2022.
(change in April-July percent of average)

Current Streamflow Conditions



Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	0	0.0%
Much above normal for this day-of-year	1	0.7%
Above normal for this day-of-year	4	2.9%
Normal for this day-of-year	24	17.5%
Below normal for this day-of-year	25	18.2%
Much below normal for this day-of-year	25	18.2%
All-time low for this day-of-year	11	8.0%
Not ranked - insufficient record	10	7.3%
Not ranked - no measurement	31	22.6%
Not ranked - stream not flowing	2	1.5%
Not ranked - no recent measurement	4	2.9%

Streamflow: Status

Above flood stage

All-time high for this day

Much above normal

Above normal

Normal

Below normal

Much below normal

All-time low for this day

Not flowing

Not ranked

Measurement flag

Recent measurement unavailable

100th percentile (maximum)

>90th percentile

76th – 90th percentile

25th – 75th percentile

10th – 24th percentile

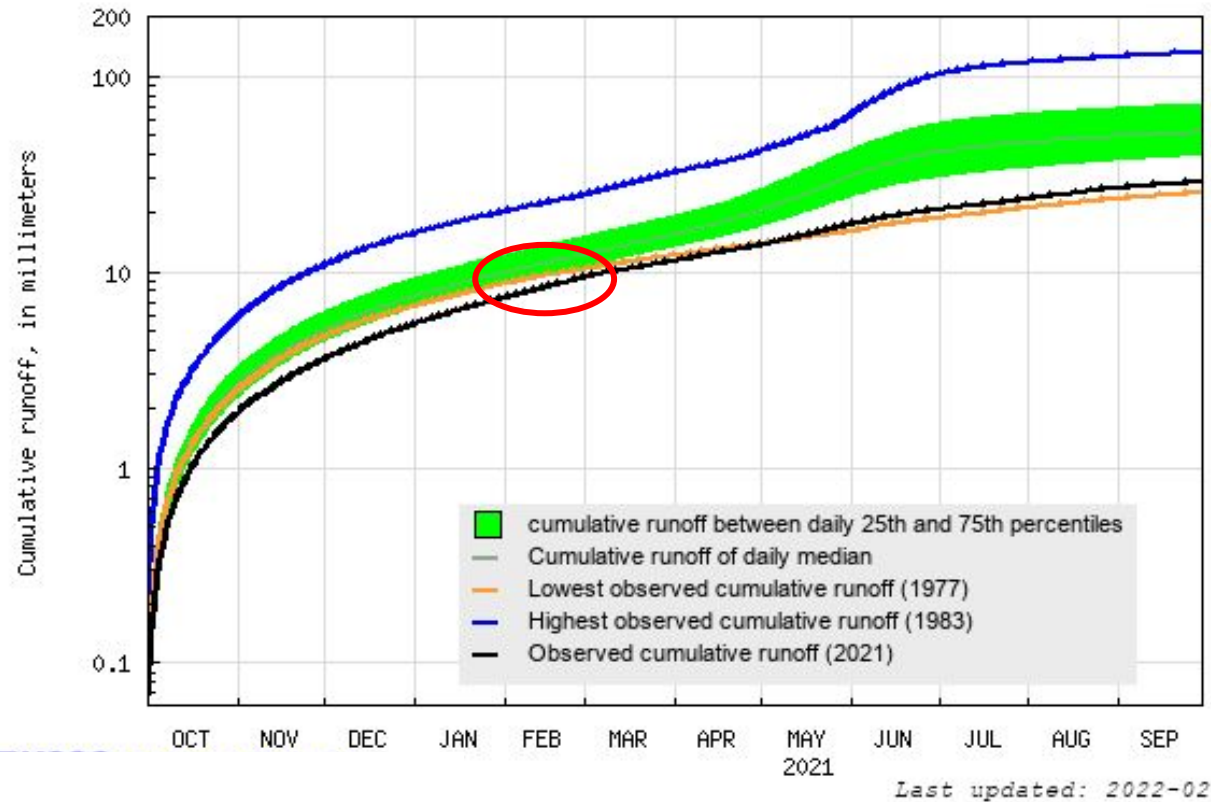
<10th percentile

0th percentile (minimum)

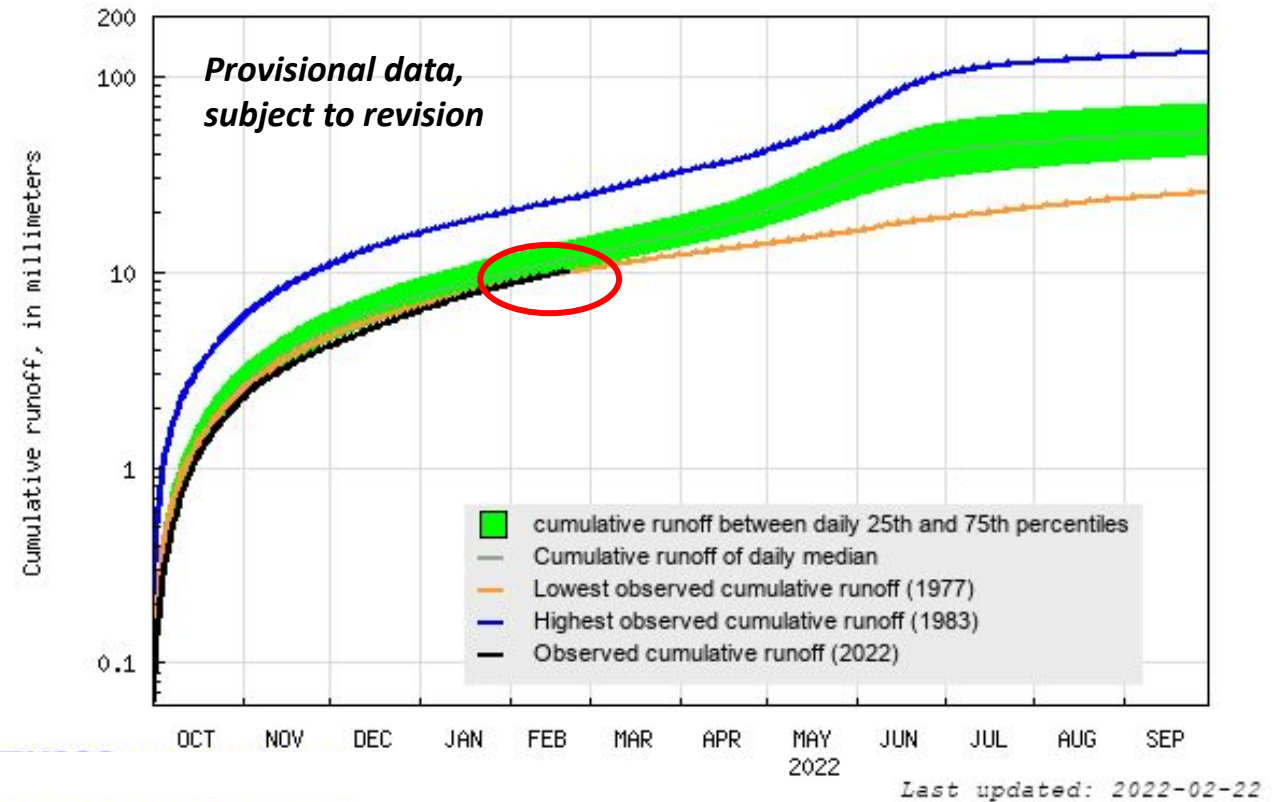


Cumulative Streamflow

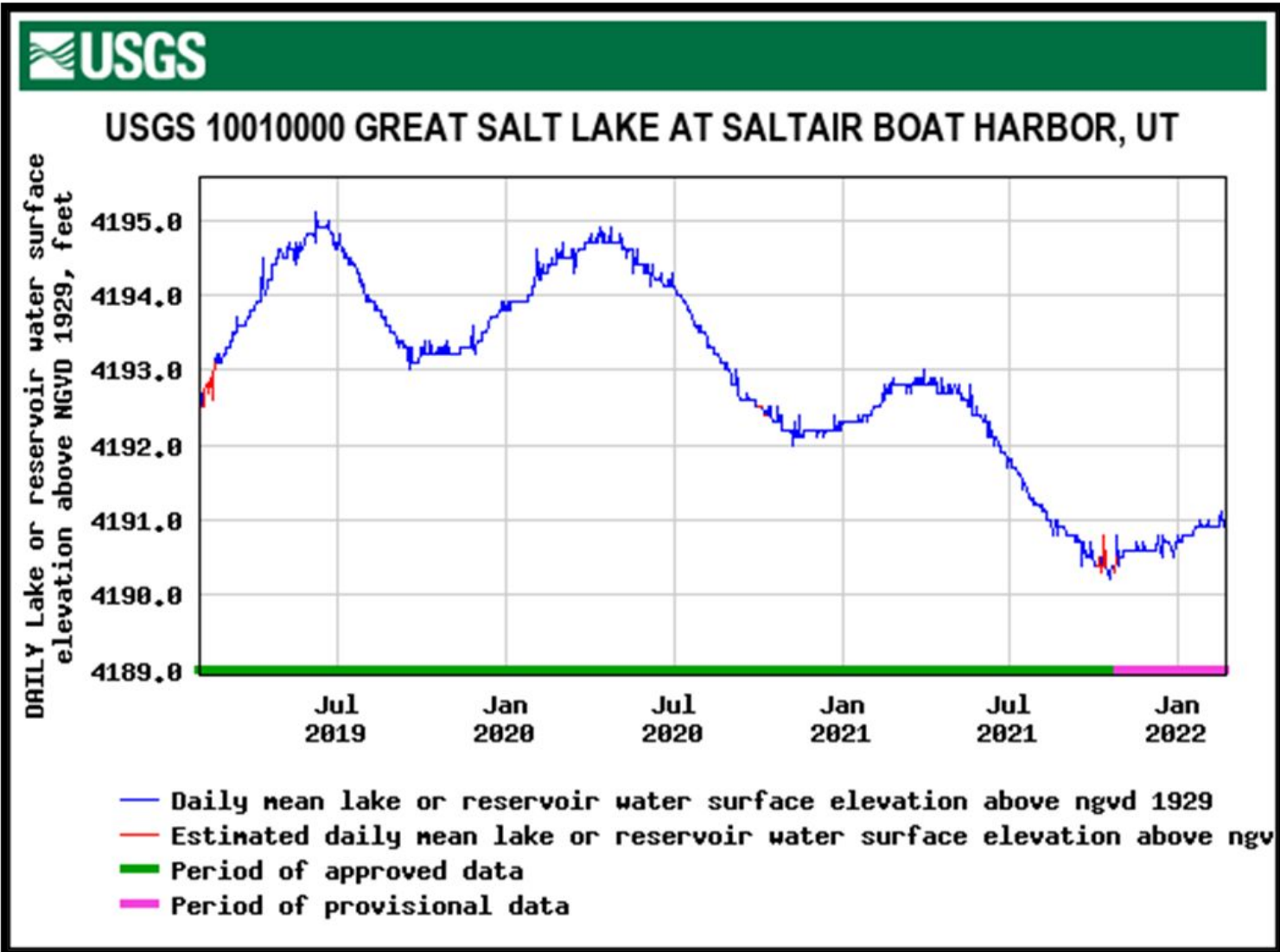
Hydrograph of cumulative 7-day average runoff for Utah (WY 2021 = black line)



Hydrograph of cumulative 7-day average runoff for Utah (WY 2022 = black line)



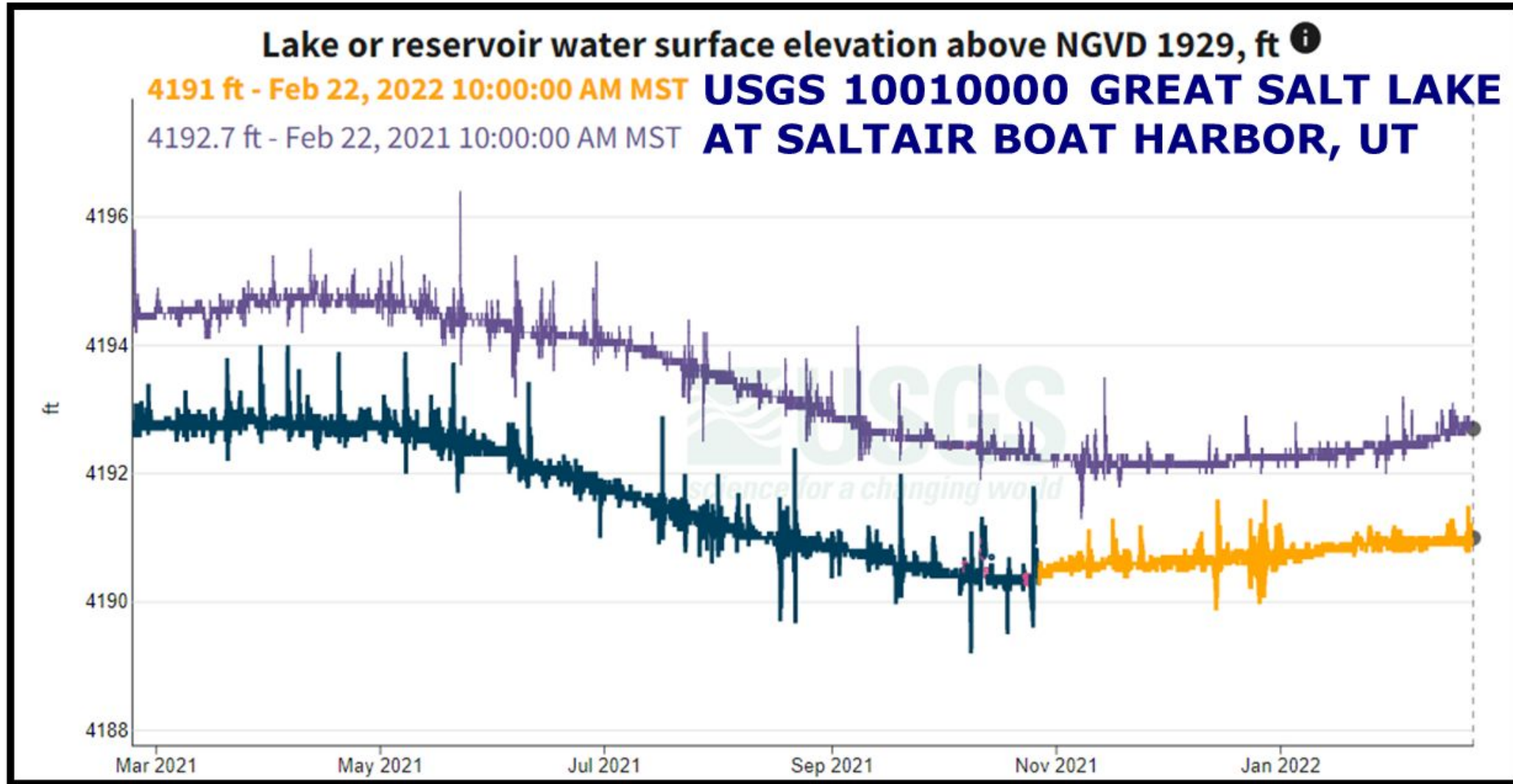
Great Salt Lake Water Surface Elevation



- Mean daily value
02/21/2022 =
4,191.1'
- 4,190.2'
10/18/2021
(new historic low)

Great Salt Lake Water Surface Elevation

This year compared to last year

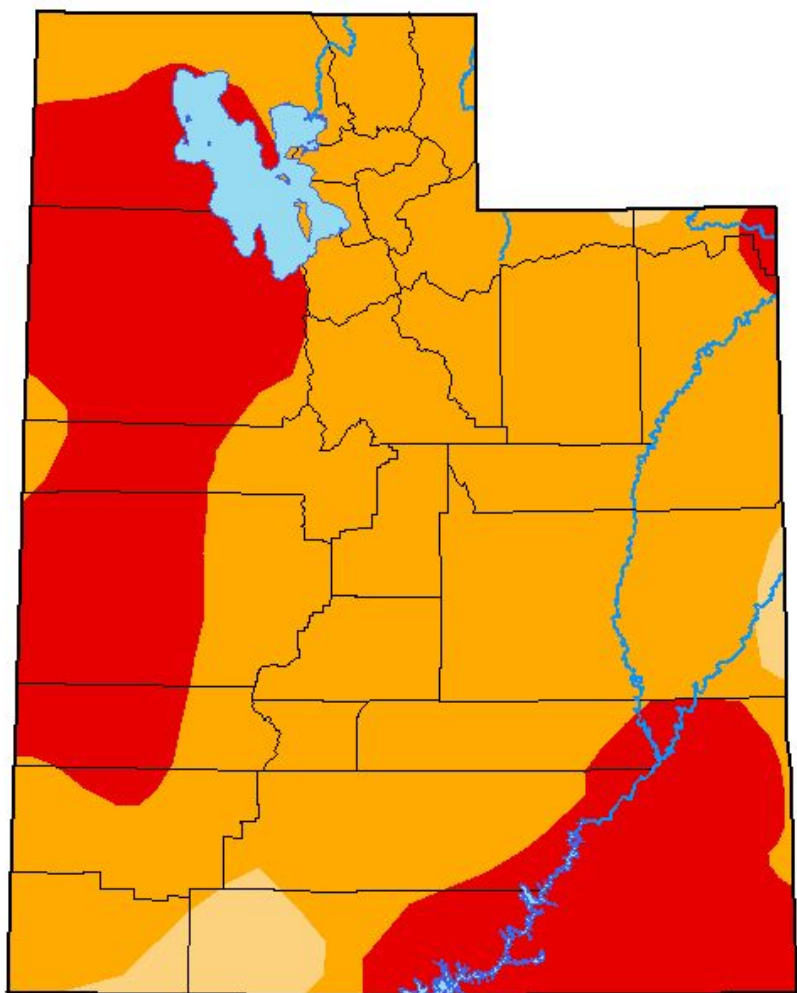


Agency - USGS Utah WSC
Presenter - Ryan Rowland

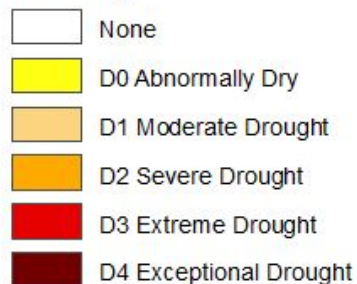
U.S. Drought Monitor

Utah

February 15, 2022
(Released Thursday, Feb. 17, 2022)
Valid 7 a.m. EST



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Brad Pugh
CPC/NOAA



droughtmonitor.unl.edu

Percent of Average Precipitation (%)
1/23/2022 – 2/21/2022

